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ATHENA, 1920

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AUSTRALASIA . . . .	OXFORD UNIVERSITY PRESS 205 FLINDERS LANE, MELBOURNE
CANADA . . . . .	THE MACMILLAN COMPANY OF CANADA, LTD. ST. MARTIN'S HOUSE, 70 BOND STREET, TORONTO
INDIA . . . . .	MACMILLAN & COMPANY, LTD. MACMILLAN BUILDING, BOMBAY 309 FOW BAZAAR STREET, CALCUTTA

# ATHENA

A YEAR-BOOK OF THE LEARNED WORLD

THE ENGLISH SPEAKING RACES

EDITED BY

C. A. EALAND, M.A.



A. & C. BLACK, LTD

4, 5 & 6 SOHO SQUARE, LONDON W. 1

1920

PRINTED IN GREAT BRITAIN.

## PREFACE

It is noteworthy that, during a period of more than a quarter of a century, no guide to the Learned World which claims a common tongue has ever been printed in the language with which it is most familiar. *Athena* fills the apparent void—tardily perhaps, but, we venture to think, propitiously; whether there is elbow-room for such a guide, time will show, but sales alone will not make for complete success. The generous co-operation of all institutions which should appear in its pages is equally important.

From overseas we have obtained every assistance in our efforts to make our work accurate and complete; where we have sinned by omission it is rather from inadvertence on our part than from lack of information when it has been sought. To all, here and abroad, who have assisted in the making of *Athena*, we offer our sincere thanks.

In such a compilation errors are, unfortunately, unavoidable, especially in the initial volume, and we shall take it as a favour if these are pointed out to us. Again, some institutions which should rightly find a place in our pages are wanting. We cannot include every university and college, society and museum; but there are several which we may have omitted inadvertently, and to these we would ask that our attention be drawn—a remark which applies more especially to overseas institutions.

Should *Athena* meet with the approval which we hope—dare we say anticipate?—it is our intention to increase its scope by including the Learned Institutions of our Allies. Before another issue becomes due, we trust that they will have reverted to something approaching normal conditions; their inclusion will certainly add to the utility of *Athena*.

# LIST OF ABBREVIATIONS

<b>A.B.</b> -	Bachelor of Arts.	<b>B.P.</b> -	Bachelor of Pharmacy.
<b>A.C.</b> -	Chartered Accountant.	<b>B.Pæd.</b> -	Bachelor of Pedagogy.
<b>A.C.G.I.</b> -	Associate of the City and Guilds Institute.	<b>B.Pe.</b> -	Bachelor of Pedagogy.
<b>A.C.P.</b> -	Associate of the College of Preceptors.	<b>B.Phil.</b> -	Bachelor of Philosophy.
<b>A.E.</b> -	Agricultural Engineer.	<b>B.S.</b> -	Bachelor of Science, or of Surgery.
<b>A.L.S.</b> -	Associate of the Linnean Society.	<b>B.S.A.</b> -	Bachelor of Agricultural Science.
<b>A.M.</b> -	Master of Arts.	<b>B.Sc.</b> -	Bachelor of Science.
<b>A.M.I.N.A.</b> -	Associate Member of the Institute of Naval Engineers.	<b>B.Sc.Agr.</b> -	Bachelor of Scientific Agriculture.
<b>A.M.Inst.C.E.</b> -	Associate Member of the Institute of Civil Engineers.	<b>B.Sc.For.</b> -	Bachelor of Scientific Forestry.
<b>A.R.C.S.</b> -	Associate of the Royal College of Surgeons.	<b>B.Sc.F.</b> -	Bachelor of Scientific Forestry.
<b>A.R.C.Sc.</b> -	Associate of the Royal College of Science.	<b>B.Sc.Tech.</b> -	Bachelor of Technical Science.
<b>A.R.C.Sc.I.</b> -	Associate of the Royal College of Science of Ireland.	<b>B.S.P.</b> -	Bachelor of Science in Pharmacy.
<b>B.A.</b> -	Bachelor of Arts.	<b>B.T.</b> -	Bachelor of Theology.
<b>B.Acc.</b> -	Bachelor of Accounting.	<b>B.Th.</b> -	Bachelor of Theology.
<b>B.Ag.</b> -	Bachelor of Agriculture.	<b>B.V.Sc.</b> -	Bachelor of Veterinary Science.
<b>E.Ag.Sc.</b> -	Bachelor of Agricultural Science.	<b>C.A.</b> -	Chartered Accountant.
<b>B.A.O.</b> -	Bachelor of Obstetrics.	<b>C.B.</b> -	Companion of the Bath.
<b>B.Arch.</b> -	Bachelor of Architecture.	<b>C.B.E.</b> -	Companion of the Order of the British Empire.
<b>B.A.Sc.</b> -	Bachelor of Agricultural Science.	<b>C.D.A.</b> -	College Diploma in Agriculture.
<b>B.B.A.</b> -	Bachelor of Business Administration.	<b>C.D.F.</b> -	College Diploma in Forestry.
<b>B.C.</b> -	Bachelor of Chemistry.	<b>C.D.D.</b> -	College Diploma in Dairying.
<b>B.C.E.</b> -	Bachelor of Chemical Engineering, or of Civil Engineering.	<b>C.E.</b> -	Chemical Engineer.
<b>B.Ch.</b> -	Bachelor of Surgery.	<b>C.H.</b> -	Companion of Honour.
<b>B.Ch.D.</b> -	Bachelor of Dental Surgery.	<b>Ch.B.</b> -	Bachelor of Surgery.
<b>B.C.L.</b> -	Bachelor of Civil Law.	<b>Ch.E.</b> -	Chemical Engineer.
<b>B.Com.</b> -	Bachelor of Commerce.	<b>Chem.E.</b> -	Chemical Engineer.
<b>B.Comm.</b> -	Bachelor of Commerce.	<b>Ch.M.</b> -	Master of Surgery.
<b>B.Com.Sc.</b> -	Bachelor of Commercial Science.	<b>C.I.E.</b> -	Companion of the Indian Empire.
<b>B.D.</b> -	Bachelor of Divinity.	<b>C.L.D.</b> -	Doctor of Civil Law.
<b>B.D.</b> -	Bachelor of Dental Surgery.	<b>C.M.</b> -	Master of Surgery.
<b>B.D.S.</b> -	Bachelor of Dental Surgery.	<b>C.M.B.O.U.</b> -	Corresponding Member of the British Ornithologists Union.
<b>B.E.</b> -	Bachelor of Engineering.	<b>C.M.G.</b> -	Companion of St. Michael and St. George.
<b>B.Eng.A.</b> -	Bachelor of Agricultural Engineering, [gineering].	<b>C.M.Z.S.</b> -	Corresponding Member of the Zoological Society.
<b>B.E.E.</b> -	Bachelor of Electrical Engineering.	<b>C.S.I.</b> -	Companion of the Star of India.
<b>B.Eng.</b> -	Bachelor of Engineering.	<b>C.V.O.</b> -	Commander of the Victorian Order.
<b>B.ès.L.</b> -	Bachelor of Letters.	<b>D.Agr.</b> -	Doctor of Agriculture.
<b>B.F.</b> -	Bachelor of Forestry.	<b>D.B.E.</b> -	Dame of the British Empire.
<b>B.F.A.</b> -	Bachelor of Forest Agriculture.	<b>D.C.L.</b> -	Doctor of Civil Law.
<b>B.Hy.</b> -	Bachelor of Hygiene.	<b>D.D.</b> -	Doctor of Divinity.
<b>B.L.</b> -	Bachelor of Law.	<b>D.D.S.</b> -	Doctor of Dental Surgery.
<b>B.L.S.</b> -	Bachelor of Literary Science.	<b>D.D.Sc.</b> -	Doctor of Dental Science.
<b>B.Litt.</b> -	Bachelor of Literature.	<b>D.Eng.</b> -	Doctor of Engineering.
<b>B.M.</b> -	Bachelor of Medicine.	<b>D.ès.L.</b> -	Doctor of Letters.
<b>B.M.E.</b> -	Bachelor of Mechanical Engineering.	<b>D.F.</b> -	Doctor of Forestry or Dean of Faculty.
<b>B.Mech.E.</b> -	Bachelor of Mechanical Engineering.	<b>D.H.L.</b> -	Doctor of Literature.
<b>B.Mus.</b> -	Bachelor of Music.	<b>D.Hy.</b> -	Doctor of Hygiene.
<b>B.O.L.</b> -	Bachelor of Oriental Languages.	<b>D.I.C.</b> -	Diploma of the Imperial College.



# LIST OF ABBREVIATIONS

<b>D.L.</b>	Doctor of Law or Deputy Lieutenant.	<b>F.R.Met.Soc.</b>	Fellow of the Royal Meteorological Society.
<b>D.Litt.</b>	Doctor of Literature.	<b>F.R.P.S.</b>	Fellow of the Royal Photographic Society.
<b>D.Litt.Celt.</b>	Doctor of Celtic Literature.	<b>F.R.S.</b>	Fellow of the Royal Society.
<b>D.M.</b>	Doctor of Medicine or Music.	<b>F.R.S.C.</b>	Fellow of the Royal Society of Canada.
<b>D.M.D.</b>	Doctor of Dental Medicine.	<b>F.R.S.E.</b>	Fellow of the Royal Society of Edinburgh.
<b>D.Met.</b>	Doctor of Metallurgy.	<b>F.R.S.L. &amp; E.</b>	Fellow of the Royal Society of London and Edinburgh.
<b>D.Mus.</b>	Doctor of Music. [guages.	<b>F.R.S.S.E. &amp; C.</b>	Fellow of the Royal Society of Edinburgh and Canada.
<b>D.O.L.</b>	Doctor of Oriental Language.	<b>F.S.A.</b>	Fellow of the Society of Antiquaries.
<b>D.Paed.</b>	Doctor of Pedagogy.	<b>F.S.S.</b>	Fellow of the Statistical Society. [Society.
<b>D.P.H.</b>	Diploma of Public Health.	<b>F.Z.S.</b>	Fellow of the Zoological [Bath.
<b>D.Phil.</b>	Doctor of Philosophy.	<b>G.C.B.</b>	Knight Grand Cross of the
<b>D.P.H.R.C.P. &amp; S.I.</b>	Diploma of Public Health of the Royal Colleges of Physicians and Surgeons, Ireland.	<b>G.C.I.E.</b>	Knight of the Grand Cross of the Indian Empire.
<b>D.S.</b>	Doctor of Science or Surgery.	<b>G.C.M.G.</b>	Knight of the Grand Cross of St. Michael and St. George.
<b>D.Sc.</b>	Doctor of Science. [gery.	<b>G.C.S.I.</b>	Grand Commander of the Star of India.
<b>D.S.O.</b>	Distinguished Service Order. [cine.	<b>G.C.V.O.</b>	Knight of the Grand Cross of the Victorian Order.
<b>D.V.M.</b>	Doctor of Veterinary Medicine.	<b>Gr.Arch.</b>	Graduate in Architecture.
<b>D.V.S.</b>	Doctor of Veterinary Science. [Science.	<b>Gr.Ed.</b>	Graduate in Education.
<b>D.V.Sc.</b>	Doctor of Veterinary Science.	<b>Gr.P.H.</b>	Graduate in Public Health.
<b>E.D.</b>	Doctor of Engineering.	<b>I.C.S.</b>	Indian Civil Service.
<b>Ed.B.</b>	Bachelor of Education.	<b>I.E.S.</b>	Indian Education Service.
<b>E.E.</b>	Electrical Engineer.	<b>I.F.S.</b>	Indian Forest Service.
<b>E.M.</b>	Mining Engineer.	<b>I.M.S.</b>	Indian Medical Service.
<b>F.A.S.B.</b>	Fellow of the Asiatic Society of Bengal. [emy.	<b>I.S.O.</b>	Imperial Service Order.
<b>F.B.A.</b>	Fellow of the British Academy.	<b>J.C.B.</b>	Bachelor of Civil Law.
<b>F.C.P.</b>	Fellow of the College of Preceptors. [Society.	<b>J.C.D.</b>	Doctor of Civil Law.
<b>F.C.S.</b>	Fellow of the Chemical Society.	<b>J.D.</b>	Doctor of Law.
<b>F.E.</b>	Forest Engineer.	<b>Jur.D.</b>	Doctor of Law.
<b>F.E.I.S.</b>	Fellow of the Educational Institute of Scotland.	<b>J.W.</b>	Junior Warden.
<b>F.E.S.</b>	Fellow of the Entomological Society.	<b>K.C.B.</b>	Knight Commander of the [Bath.
<b>F.F.A.</b>	Fellow of the Faculty of Actuaries.	<b>K.C.I.E.</b>	Knight Commander of the Indian Empire.
<b>F.G.S.</b>	Fellow of the Geological Society. [Actuaries.	<b>K.C.M.G.</b>	Knight Commander of St. Michael and St. George.
<b>F.I.A.</b>	Fellow of the Institute of Actuaries.	<b>K.C.S.I.</b>	Knight Commander of the Star of India.
<b>F.I.C.</b>	Fellow of the Institute of Chemistry. [Society.	<b>K.C.V.O.</b>	Knight Commander of the Victorian Order.
<b>F.L.S.</b>	Fellow of the Linnean Society.	<b>K.G.</b>	Knight of the Garter.
<b>F.R.A.S.</b>	Fellow of the Royal Asiatic Society.	<b>K.P.</b>	Knight of St. Patrick.
<b>F.R.C.P.</b>	Fellow of the Royal College of Physicians.	<b>K.T.</b>	Knight of the Thistle.
<b>F.R.C.P.I.</b>	Fellow of the Royal College of Physicians, Ireland.	<b>L.C.L.</b>	Licentiate of Civil Law.
<b>F.R.C.S.</b>	Fellow of the Royal College of Surgeons.	<b>L.C.P.</b>	Licentiate of the College of Preceptors. [cine.
<b>F.R.S.E.</b>	Fellow of the Royal College of Surgeons, Edinburgh.	<b>L.D.M.</b>	Licentiate of Dental Medicine.
<b>F.R.S.Eng.</b>	Fellow of the Royal College of Surgeons, England.	<b>L. ès Sc.</b>	Licentiate of Science.
<b>F.R.C.Sc.</b>	Fellow of the Royal College of Science.	<b>L.H.D.</b>	Doctor of Literature.
<b>F.R.C.Sc.I.</b>	Fellow of the Royal College of Science, Ireland.	<b>Litt.D.</b>	Doctor of Literature.
<b>F.R.H.S.</b>	Fellow of the Royal Horticultural Society.	<b>Litt.D.</b>	Doctor of Literature.
<b>F.R.I.A.</b>	Fellow of the Royal Irish Academy.	<b>LL.B.</b>	Bachelor of Law.
<b>F.R.I.B.A.</b>	Fellow of the Royal Institute of British Architects.	<b>LL.D.</b>	Doctor of Law.
		<b>LL.M.</b>	Master of Law.
		<b>L.M.</b>	Licentiate in Medicine.

# LIST OF ABBREVIATIONS

L.P. -	Lord Provost.	M.R.C.S. -	Member of the Royal College of Surgeons.
L.R.C.P. -	Licentiate of the Royal College of Physicians.	M.F.C.V.S. -	Member of the Royal College of Veterinary Surgeons.
L.R.C.P.I. -	Licentiate of the Royal College of Physicians, Ireland.	M.R.I.A. -	Member of the Royal Irish Academy.
L.S. -	Licentiate in Surgery.	M.S. -	Master of Science or Surgery.
L.S.A. -	Licentiate of the Society of Apothecaries.	M.S.A. -	Member of the Society of Arts.
L.T. -	Licentiate in Theology.	M.S.Agr. -	Master of Scientific Agriculture.
L.Th. -	Licentiate in Theology.	M.Sc. -	Master of Science.
M.A. -	Master of Arts.	M.Sc.Tech. -	Master of Technical Science.
M.Agr. -	Master of Agriculture.	M.Th. -	Master of Theology.
M.Agr.Sc. -	Master of Agricultural Science.	Mus.B. -	Bachelor of Music.
M.Arch. -	Master of Architecture.	Mus.Bac. -	Bachelor of Music.
M.A.O. -	Master of Obstetrics.	Mus.D. -	Doctor of Music.
M.B. -	Bachelor of Medicine.	Mus.Doc. -	Doctor of Music.
M.B.A. -	Master of Business Administration.	Mus.Dr. -	Doctor of Music.
M.B.O.U. -	Member of the British Ornithologists Union.	Mus.M. -	Master of Music.
M.C.E. -	Master of Civil Engineering.	M.V.Sc. -	Master of Veterinary Science.
M.Ch. -	Master of Surgery.	N.Arch. -	Naval Architect.
M.C.L. -	Master of Civil Law.	N.D.A. -	National Diploma in Agriculture.
M.Com. -	Master of Commerce.	N.D.D. -	National Diploma in Dairy.
M.Comm. -	Master of Commerce.	N.E. -	Naval Engineer.
M.C.S. -	Madras Civil Service.	C.B.E. -	Order of the British Empire.
M.D. -	Doctor of Medicine.	C.M. -	Order of Merit.
M.D.S. -	Master of Dental Surgery.	F.E. -	Bachelor of Pedagogy.
M.E. -	Mechanical or Mining Engineer.	Pd.D. -	Doctor of Pedagogy.
M.E.C. -	Member of Executive Council, or Master of Engineering Chemistry.	Pd.M. -	Master of Pedagogy.
M.Ed. -	Master of Education.	Ped.B. -	Bachelor of Pedagogy.
Mech.E. -	Mechanical Engineer.	Ped.D. -	Doctor of Pedagogy.
Met.E. -	Metallurgical Engineer.	Phar.E. -	Bachelor of Pharmacy.
M.Eng. -	Mechanical or Mining Engineer.	Phar.D. -	Doctor of Pharmacy.
M.F. -	Master of Forestry.	Ph.E. -	Bachelor of Philosophy or of Pharmacy.
M.H. -	Master of Hygiene.	Ph.C. -	Pharmaceutical Chemist.
M.I.E.E. -	Member of the Institute of Electrical Engineers.	Ph.D. -	Doctor of Philosophy or of Pharmacy.
M.I.Mech.E. -	Member of the Institute of Mechanical Engineers.	Ph.G. -	Graduate in Pharmacy.
Min.E. -	Mining Engineer.	Ph.L. -	Licentiate in Pharmacy.
M.Inst.C.E. -	Member of the Institute of Civil Engineers.	Ph.M. -	Master of Philosophy.
M.J.A. -	Member of the Institute of Journalists.	Phm.B. -	Bachelor of Pharmacy.
M.L.A. -	Member of Legislative Assembly.	Pres.R.S. -	President of the Royal Society.
M.L.C. -	Member of Legislative Council.	S.B. -	Bachelor of Science or of Surgery.
M.L.S. -	Master of Life and Science.	Sc.E. -	Bachelor of Science.
M.M.E. -	Master of Mining or Mechanical Engineering.	Sc.D. -	Doctor of Science.
M.Mech.E. -	Master of Mechanical Engineering.	Sc.M. -	Master of Science.
M.Met. -	Master of Metallurgy.	S.D. -	Doctor of Science or of Surgery.
M.Mus. -	Master of Music.	Sec.R.S. -	Secretary of the Royal Society.
M.O. -	Master of Obstetrics.	S.F. -	Senior Fellow.
M.O.L. -	Master of Oriental Languages.	S.J. -	Society of Jesus.
M.R.A.S. -	Member of the Royal Academy of Science.	S.M. -	Master of Science or of Surgery.
M.R.I. -	Member of the Royal Institute of Physicians.	S.S.C. -	Solicitor before the Supreme Court.
M.R.C.P. -	Member of the Royal College of Physicians.	S.T.S. -	Bachelor of Divinity.
M.R.C.P.I. -	Member of the Royal College of Physicians, Ireland.	S.T.D. -	Doctor of Divinity.
		S.T.L. -	Licentiate of Divinity.
		S.T.M. -	Master of Divinity.
		T.C.D. -	Trinity College, Dublin.
		Th.E. -	Bachelor of Theology.
		Th.D. -	Doctor of Theology.
		Th.G. -	Graduate in Theology.
		Th.M. -	Master of Theology.
		V.M.D. -	Doctor of Veterinary Medicine.

# ATHENA

## A YEAR-BOOK OF THE LEARNED WORLD

### ABERDEEN.

**UNIVERSITY OF ABERDEEN.** (1494.) (King's College, Old Aberdeen, 1494.  
Marischal College, Aberdeen, 1593.)

*Terms:* three per year.

*Students:* (1918-19), 1183.

**Budget:**

*General University Fund* (Administration, Salaries, Service, Maintenance of Buildings, etc.):

Revenue (1917-18), £30,738 11s. 4d.

*Endowment Funds* (for Bursaries, Scholarships, Prizes, Teaching, Foundations, and other purposes):

Revenue (1917-18), £26,457 8s. 7d.

Stock at 30th September, 1918, £524,034 18s. 11d.

**Fee Fund:**

Revenue (1917-18) including surplus carried to General Fund (£2,581 12s. 6d),  
£10,871 17s.

### OFFICIALS.

*Chancellor.*—His Grace the Duke of Richmond and Gordon, K.G., G.C.V.O., C.B.

*Vice-Chancellor and Principal.*—The Very Rev. Sir George Adam Smith, M.A., D.D., LL.D., F.B.A.

*Rector.*—The Rt. Hon. Viscount Cowdray.

*Clerk to the General Council and Librarian.*—P. J. Anderson, M.A., LL.B.

*Secretary and Treasurer.*—Donaldson Rose Thom, M.A.

*Dean of the Faculty of Arts.*—A. A. Jack, M.A., LL.M.

*Dean of the Faculty of Science.*—J. Hendrick, B.Sc.

*Dean of the Faculty of Divinity.*—H. Cowan, M.A., D.D., D.Th., D.C.L.

*Dean of the Faculty of Law.*—A. M. Stuart, M.A., LL.B.

*Dean of the Faculty of Medicine.*—T. Shennan, M.D., F.R.C.S.E.

### Degrees conferred :

*Degrees.*

M.A.	-	-	Black silk, lined with white silk.
D.Phil.	-	-	Black silk, lined with white silk.
D.Litt.	-	-	Scarlet cloth, lined with white silk.
Ed.B.	-	-	Black silk, edged with white silk.
B.Com.	-	-	Black silk, edged with lilac silk.
B.Sc.	-	-	Black silk, lined with green silk.
B.Sc.Agr.	-	-	Black silk, edged with green silk.
B.Sc.For.	-	-	Black silk, with waved green silk edging.
D.Sc.	-	-	Scarlet cloth, lined with green silk.
B.D.	-	-	Black silk, lined with purple silk.
D.D.	-	-	Scarlet cloth, lined with purple silk.
B.L.	-	-	Black silk, edged with pale blue silk.
LL.B.	-	-	Black silk, lined with pale blue silk.
LL.D.	-	-	Scarlet cloth, lined with pale blue silk.
M.B.	-	-	Black silk, lined with crimson silk.
Ch.B.	-	-	Black silk, lined with crimson silk.
M.D.	-	-	Scarlet cloth, lined with crimson silk.
Ch.M.	-	-	White silk, lined with crimson silk.

*Hoods.*

PROFESSORS.

FACULTY OF ARTS.

Professors :

- J. Harrower, *Greek*.  
C. S. Terry, *History*.  
A. Souter, *Latin*.  
A. A. Jack, *English*.

Lecturers :

- W. Kelly, *Art*.  
H. Townend, *Art*.  
J. Fraser, *Celtic and Comparative Philology*.  
J. L. McIntyre, *Comparative Psychology*.  
A. Birnie, *Economic History*.  
J. Clarke, *Education*.  
G. E. Bairstow (Miss), *Education*.  
A. Macleod, *Elocution*.  
F. E. A. Campbell, *English Language*.  
W. Grant, *English Language*.  
M. G. May (Miss), *English Literature*.  
J. Desseignet, *French*.  
W. Scholle, *French*.  
J. McFarlane, *Geography*.  
J. Lees, *German*.  
R. C. Jamieson (Miss), *German History*.  
M. W. U. Robertson (Miss), *Greek History*.  
J. R. Elder, *History (British)*.  
R. B. Forrester, *Political Economy*.  
G. A. T. Davies, *Roman History*.

FACULTY OF SCIENCE.

Professors :

- (Vacant) *Botany*.  
C. Niven, *Natural Philosophy*.  
W. L. Davidson, *Logic and Metaphysics*.  
J. A. Thomson, *Natural History*.  
J. B. Baillie, *Natural Philosophy*.  
N. M. MacDonald, *Mathematics*.  
A. Findlay, *Chemistry*.

Lecturers :

- E. S. Edie, *Bio-Chemistry*.  
F. W. Gray, *Chemistry*.  
J. Knox, *Chemistry*.  
A. R. Horne, *Engineering Field Work*.  
T. A. W. Fulton, *Scientific Study of Fisheries*.  
A. W. Gibb, *Geology*.  
J. Goodwillie, *Mathematics*.  
W. W. Fyvie, *Natural Philosophy*.  
MacGregor Skene, *Vegetable Physiology*.

FACULTY OF DIVINITY.

Professors :

- H. Cowan, *Church History*.  
J. Gilroy, *Hebrew*.  
W. Fulton, *Systematic Theology*.

FACULTY OF LAW.

Professors :

- A. M. Stuart, *Law*.

Lecturers :

- H. A. Davidson, *Accounting and Business Methods*.  
R. H. Cowie, *Banking*.  
R. M. Williamson, *Constitutional Law and History*.  
A. C. Morrison, *Conveyancing*.  
G. Duncan, *International Law*.  
A. Blacklaw, *Procedure and Evidence (Law)*.  
A. Macdonald (Miss), *Public Finance*.  
J. E. Tocher, *Statistics, and Statistical Method*.

FACULTY OF MEDICINE.

Professors :

- M. Hay, *Forensic Medicine*.  
J. A. MacWilliam, *Physiology*.  
R. W. Reid, *Anatomy*.  
J. Marnock, *Surgery*.  
A. Mackintosh, *Medicine*.  
R. G. McKerron, *Midwifery*.  
T. Shennan, *Pathology*.  
C. R. Marshall, *Materia Medica*.

Lecturers :

- G. M. Duncan, *Bacteriology*.  
A. Low, *Embryology*.  
G. S. Melvin, *Physiology (Experimental)*.  
J. P. Kinloch, *Public Health*.  
G. A. Williamsen, *Tropical Medicine*.

FACULTY OF AGRICULTURE.

Professor :

- J. Hendrick, *Agriculture*.

Lecturers :

- W. J. Profeit, *Agriculture*.  
A. S. Watt, *Forest Botany and Forest Zoology*.  
P. Leslie, *Forestry*.  
J. Rennie, *Parasitology and Experimental Zoology*.  
W. Brown, *Veterinary Hygiene*.

**Post-Graduate Courses.**—Courses are conducted qualifying for the Diploma in Public Health, which is open to graduates of any University in the United Kingdom. There are well-equipped laboratories in most of the Departments in the Faculties of Medicine and Science, where special study and research may be carried on under the supervision of the Professor. A post-graduate Degree of Bachelor of Education (Ed.B.) has recently been instituted. Candidates must hold a Degree in Arts or Science of an approved University. The curriculum for Ed.B. extends over two academical years.



**Museums :**

The Anthropological and Egyptian Museums.  
 Departmental Museums in Natural History, Botany, Geology, Pathology,  
 Surgery, Forensic Medicine, Materia Medica, Midwifery.

**Libraries.**—Library, 200,000 volumes.

At King's College (General).

At Marischal College (Medicine, Natural Science, Law.) *Librarian* ; P. J. Anderson.

Also Departmental and Class Libraries.

## ABERYSTWYTH (Wales).

**UNIVERSITY COLLEGE OF WALES**, Sea Front, Aberystwyth. (1872.)

*Terms* : Three per year.

*Students* : 1,100.

### OFFICIALS.

*President.*—Sir John Williams, Bart., M.D., D.Sc., G.C.V.O.

*Vice-Presidents.*—Major D. Davies, M.P.

Sir A. Garrod Thomas, M.D., D.L., J.P.

*Principal.*—John Humphreys Davis, M.A.

*Registrar.*—(Vacant.)

### PROFESSORS.

#### ARTS.

**Professors :**

J. W. Marshall, *Greek*.

H. J. Rose, *Latin*.

(Vacant), *Hebrew and Arabic*.

(Vacant) *German*.

J. L. A. Barbier, *French Language and Literature and Romance Philology*.

J. W. H. Atkins, *English Language and Literature*.

E. Edwards, *History*.

T. S. Roberts, *Colonial History*.

E. A. Lewis, *Economics and Political Science*.

A. E. Zimmermann, *International Politics*.

T. Gwynn Jones, *Welsh Literature*.

W. J. Jones, *Logic and Philosophy*.

T. A. Levi, *English Law*.

H. Walford Davies, *Music*.

C. R. Chapple, *Education*.

F. Watson

”

**Lecturers :**

E. D. T. Jenkins, *Greek and Latin*.

M. Brebner (Miss), *German*.

L. Winstanley (Miss), *English Language and Literature*.

E. A. Lewis, *Paleography and Diplo-*

F. Smith, *Education*. [matics.]

**Library.**—General College Library. *Librarian* : J. D. Williams, B.A.

#### SCIENCE.

**Professors :**

W. H. Young, *Pure Mathematics*.

G. A. Schott, *Applied Mathematics*.

B. Moriat Jones, *Chemistry*.

G. Owen, *Physics*.

W. J. Pugh, *Geology*.

J. L. Williams, *Botany*.

H. J. Fleure, *Geography and Anthro-*

*pology*.

A. E. Jones, *Agriculture*.

R. G. Stapledon, *Agricultural Botany*.

**Lecturers :**

W. J. Johnston, *Pure Mathematics*.

T. Campbell James, *Chemistry*.

H. H. Paine, *Physics*.

R. D. Laurie, *Zoology*.

J. J. Griffith, *Agricultural Chemistry*.

R. Phillips

K. Sampson (Miss) *” Agricultural ” Botany*.

**County Organizers of Agricultural Education :**

D. Thomas, Breconshire and Radnorshire.

D. J. Morgan, Cardiganshire.

J. Ll. Evans, Carmarthenshire.

J. L. John, Montgomeryshire.

## ADELAIDE (S. Australia).

**UNIVERSITY OF ADELAIDE**, Adelaide, South Australia. (1874.)

*Terms* : Three per year.

### OFFICIALS.

*Director.*—His Excellency the Governor.

*Chancellor.*—The Hon. Sir George John Robert Murray, K.C.M.G., B.A., LL.M.

*Vice-Chancellor.*—Professor William Mitchell, M.A., D.Sc.

*Registrar.*—Charles Reynolds Hodge.

*Assistant Registrar.*—Frederick William Eardley, B.A.

*Librarian.*—Robert John Miller Clucas, B.A.

## Degrees conferred :

## Degrees.

B.A.	- -	Black silk lined with grey silk.
M.A.	- -	Black silk lined with dark grey silk.
LL.B.	- -	Black silk lined with blue silk.
LL.D.	- -	Dark blue lined with light blue silk.
M.B.	- -	Black silk lined with rose silk.
M.D.	- -	Rose silk lined with pale rose silk.
B.S.	- -	Black silk lined with rose silk.
D.S.	- -	Rose silk lined with pale rose silk.
B.Sc.	- -	Black silk lined with yellow silk.
D.Se.	- -	Yellow silk lined with pale yellow silk.
B.E.	- -	Black silk lined with light brown silk.
M.E.	- -	Black silk lined with dark brown silk.
Mus.Bac.	- -	Black silk lined with green silk.
Mus.Doc.	- -	Green silk lined with dark green silk.

## Hoods.

## PROFESSORS.

## Professors :

- H. D. Naylor, *Classics and Comparative Philology and Literature.*  
 W. Mitchell, *Philosophy.*  
 G. C. Henderson, *Modern History and English Language and Literature.*  
 R. W. Chapman, *Mathematics and Mechanics.*  
 K. Grant, *Physics.*  
 A. Watson, *Anatomy.*  
 Sir E. C. Stirling, *Physiology.*  
 E. H. Rennie, *Chemistry.*  
 T. G. B. Osborn, *Botany.*

## Lecturers :

- J. Crampton, *French Language.*  
 A. J. Schulz, *Education.*  
 H. Heaton, *Economics.*  
 H. W. Gartrell, *Mining Engineering.*  
 E. V. Clark, *Electric Engineering.*  
 W. Howchin, *Geology and Mineralogy.*  
 Sir D. Mawson, *Mineralogy and Petrology.*  
 W. T. Cooke, *Chemistry.*  
 H. H. Corbin, *Forestry.*  
 A. Mills Lea, *Forest Entomology.*  
 F. A. d'Arenberg, *Law of Evidence and Procedure.*  
 P. E. Johnstone, *Law of Contracts.*  
 E. W. Benham, *Law of Property.*  
 T. J. Brown, *Law of Wrongs.*  
 H. Heaton, *Economics and Commercial History.*  
 R. J. Miller Clucas, *Economic Geography.*

## Lecturers—Continued :

- R. N. Finlayson, *Industrial and Commercial Law.*  
 S. R. Booth, *Accountancy.*  
 H. Heaton, *Industrial Practice.*  
 R. M. Steele, *Commercial Practice.*  
 W. Ham, *Australian Industries.*  
 W. R. Cavenagh-Mainwaring, *Pathology.*  
 T. Borthwick, *Bacteriology.*  
 H. Swift, *Principles and Practice of Medicine and Therapeutics.*  
 J. C. Verco, *Principles and Practice of Medicine and Therapeutics.*  
 W. T. Hayward, *Materia Medica and Therapeutics.*  
 B. Poulton, *Principles and Practice of Surgery.*  
 F. S. Hone, *Clinical Medicine.*  
 A. M. Cudmore, *Clinical Surgery.*  
 J. A. G. Hamilton, *Gynecology.*  
 A. A. Lendon, *Obstetrics and Diseases of Children.*  
 A. M. Morgan, *Ophthalmic Surgery.*  
 G. A. Fischer, *Aural Surgery.*  
 R. S. Rogers, *Forensic Medicine.*  
 M. H. Downey, *Psychological Medicine.*  
 C. T. C. de Crespigny, *Practical Pathology and Histology.*  
 J. B. Gunson, *Medical Diseases of Children.*  
 H. S. Newland, *Surgical Diseases of Children.*  
 2 Assistant Lecturers, 3 Tutors, 3 Demonstrators.

## AFFILIATED INSTITUTION.

Perth Technical School, Western Australia.

## ROYAL SOCIETY OF SOUTH AUSTRALIA.

## OFFICERS.

*Patron.*—His Excellency Sir Henry L. Galway, K.C.M.G., D.S.O.

*President.*—Sir Joseph C. Verco, M.D., F.R.C.S.

*Vice-Presidents.*—

Major R. H. Pulleine, M.B.

Edwin Ashby, F.L.S., M.B.O.U.

*Hon. Treasurer.*—W. B. Poole.

*Hon. Secretary.*—W. Rutt, C.E.

*Members of Council.*

Prof. E. H. Rennie, M.A., D.Sc., F.C.S.

Prof. T. G. B. Osborn, M.Sc.

Capt. S. A. White, C.M.B.O.U.

Lieut.-Col. R. S. Rogers, M.A., M.D.

Prof. R. W. Chapman, M.A.,

B.C.E.

Prof. W. Howchin, F.G.S. (Editor

and Representative

Governor on Board of S.A. Library, Museum, etc.

In 1853 the Society (then and until 1880 known as the Adelaide Philosophica Society) was founded, and commenced to hold monthly meetings for the reading and discussion of papers on scientific subjects, which were published in a somewhat irregular form until 1878, when the first annual volume of its *Transactions and Proceedings* was issued in octavo in a form suitable for distribution to other learned Societies and Institutions in exchange for their publications. In 1880 permission was granted by H.M. Queen Victoria to assume the name "Royal Society of South Australia." Forty-two annual volumes of the *Transactions and Proceedings* and two volumes of *Memoirs* in quarto have been issued to date.

The membership of the Society comprises 10 Honorary Fellows, 5 Corresponding Members, 76 Fellows, and 1 Associate. The number of societies and institutions on the list for exchange of publications is at present 194. The library now contains 3,400 volumes and 1,600 pamphlets.

## AGRICULTURE, U.S. DEPARTMENT OF. See WASHINGTON.

## AJMER (India).

THE GOVERNMENT COLLEGE, Ajmer, India. (1868.)

Affiliated to the University of Allahabad.

*Terms* : July to April.

*Students* : 110.

## OFFICIALS.

*Principal.*—E. F. Harris, B.A.

*Officiating Principal.*—A. Miller, M.A.

8 Professors, 2 Demonstrators.

*Library.*—The College Library contains about 4,000 volumes. *Librarian* : Babu Manmohan Rai, B.A.

## ALBANY (New York).

UNIVERSITY OF THE STATE OF NEW YORK, Albany, N.Y.

The University is the State Education Department, it exercises the general management and supervision of all public schools, and all the educational work of the State. It is governed and all its corporate powers are exercised by a Board of Regents serving without salary. The Regents confer certificates, diplomas, and degrees; they register both domestic and foreign institutions in terms of New York Standards, fix the values of degrees, etc., issued by institutions of other States and countries, and forwarded for entrance to schools, colleges, and professions in New York State.

REGENTS OF THE UNIVERSITY (with years when Terms expire).

- 1920. J. Byrne, B.A., LL.D., LL.B., New York.
- 1921. (Vacant.)
- 1922. C. S. Lord, M.A., LL.D., Brooklyn.
- 1923. (Vacant.)
- 1924. A. Moot, LL.D., Buffalo.
- 1925. C. B. Alexander, M.A., LL.B., LL.D., Litt.D., Tuxedo.
- 1926. P. T. Sexton, LL.B., LL.D. (Chancellor), Palmyra.
- 1927. A. Vander Veer, M.D., M.A., Ph.D., LL.D. (Vice-Chancellor), Albany.
- 1928. W. G. Kellogg, B.A., LL.D., Ogdensburg.
- 1929. H. L. Bridgman, M.A., Brooklyn.
- 1930. W. Nottingham, M.A., Ph.D., LL.D., Syracuse.
- 1931. T. J. Mangan, M.A., Binghamton.

OFFICIALS.

*President of the University and Commissioner of Education.*—J. H. Finley, M.A., LL.D., L.H.D.

*Deputy Commissioner.*—Frank B. Gilbert.

*Assistant Commissioner for Elementary Education.*—G. M. Wiley, M.A.

*Assistant Commissioner and Director of Professional Education.*—A. S. Downing, M.A., L.H.D., LL.D.

*Assistant Commissioner for Secondary Education.*—C. F. Weelock, B.S., LL.D.

*Director of State Library.*—J. I. Wyer, jr., M.L.S., Ph.D.

*Director of Science and State Museum.*—J. M. Clarke, D.Sc., LL.D.

CHIEFS AND DIRECTORS OF DIVISIONS.

*Administration.*—H. C. Case.

*Agricultural and Industrial Education.*—L. A. Wilson.

*Archives and History.*—J. Sullivan, M.A., Ph.D.

*Attendance.*—J. D. Sullivan.

*Educational Extension.*—W. R. Watson, B.S.

*Examinations and Inspections.*—G. M. Wiley, M.A.

*Law.*—F. B. Gilbert, B.A., Counsel.

*Library School.*—J. I. Wyer, jr., M.L.S., Pd.D.

*School Buildings and Grounds.*—F. H. Wood, M.A.

*School Libraries.*—S. Willians, Pd.D.

*Visual Instruction.*—A. W. Abrams, Ph.B.

THE CARNEGIE INSTITUTION DEPARTMENT OF MERIDIAN ASTROMETRY,  
DUDLEY OBSERVATORY, Albany, New York. (1907.)

*Director.*—Benjamin Boss.

*Investigatory staff of 16 members.*

Objects are to secure accurate measures of the position of the stars visible in the southern hemisphere for use in connection with corresponding measures made at observatories in the northern hemisphere, in order to produce a complete catalogue of precision of all stars from the brightest down to those of the seventh magnitude, inclusive, for the entire celestial sphere.

ALBERTA, UNIVERSITY OF. See EDMONTON.

ALIGARH (U.P. India).

MOHAMMEDAN ANGLO-ORIENTAL COLLEGE, Aligarh, U.P. India. (1875.)

Affiliated to the University of Allahabad.

*Terms:* April to August.

*Students:* 170.

*Budget:* The Budget exceeds 280,000 Rupees.

OFFICIALS.

*Principal.*—Eia Uddin Ahmad, C.I.E., M.A., Ph.D., D.Sc.

*Librarian.*—Firoz Uddin Murad.

*Secretary.*—Syed Mohammed Ali.

Post-Graduate Courses in Arts, Science, and Oriental Languages.



## ALLAHABAD (India).

**THE UNIVERSITY OF ALLAHABAD**, Allahabad, United Provinces of India. (1887.)

*Terms : July to March.*

### OFFICIALS.

*Chancellor.*—The Hon. Sir Spencer Harcourt Butler, K.C.S.I., C.I.E.

*Vice-Chancellor.*—The Hon. Justice Theodore Caro Piggot, I.C.S.

*Registrar.*—M. G. V. Cole, M.A.

*Assistant Registrar.*—S. M. David, B.A.

### Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - - -	Hood of black silk, edged with a band of amber yellow silk on both sides.
M.A. - - -	Hood of black silk, lined with a band of amber yellow silk.
Litt.D. - - -	Hood of white cloth, with scarlet silk lining.
LL.B. - - -	Hood of black silk, lined with pale blue silk.
LL.M. - - -	Hood of black silk, lined with deep blue silk.
LL.D. - - -	Hood of pale blue silk.
B.Sc. - - -	Hood of black silk, edged with a 3-inch band of crimson silk on both sides.
M.Sc. - - -	Hood of black silk, edged with a 6-inch band of crimson silk on both sides.
D.Sc. - - -	Hood of white silk.
Licentiate of Teaching - - -	Hood of black silk, lined with pearl-grey silk.
M.B. and B.S. - - -	Hood of black silk, lined with emerald-green silk.
M.D. - - -	Hood of black velvet, lined with emerald green silk.

### UNIVERSITY SCHOOL OF LAW.

#### PROFESSORS.

J. C. Weir. R. K. Serabji.  
2 Lecturers.

### OTHER UNIVERSITY DEPARTMENTS.

#### Professors :

L. F. Rushbrook-Williams, *Modern History*.

1 Reader, 2 Assistant Professors, 1 Research Assistant, 2 Research Scholars.

H. S. Jevons, *Economics*.

1 Reader, 1 Research Assistant, 1 Scholar.

**Post-Graduate Courses** leading to M.A. degree.

**Libraries.**—University Library. *Librarian :* S. Parshad.

### AFFILIATED INSTITUTIONS.

Hislop College, Nagpur.  
Ewing Christian College, Allahabad.  
Indore Christian College, Indore.  
Government College, Ajmer.  
Bareilly College, Bareilly.  
Lucknow Christian College, Lucknow.  
Robertson College, Jubbulpore.  
Muir Central College, Allahabad.  
Queen's College, Benares.  
Canning College, Lucknow.  
Mohammedan Anglo-Oriental College, Aligarh.  
Agra College, Agra.  
Christ Church College, Cawnpore.  
Maharaja's College, Jaipur.  
Morris Memorial College, Nagpur.  
Victoria College, Gwalior.

Meerut College, Meerut.  
Isabella Thorburn College, Lucknow.  
Jaswant College, Jodhpur.  
Holkar College, Indore.  
Woodstock College, Mussoorie.  
Kayastha Pathshala, Allahabad.  
St. Andrew's College, Gorakhpur.  
Government Training College, Allahabad.  
Training College, Jubbulpore.  
Victoria College, of Science, Nagpur.  
St. John's College, Agra.  
University School of Law, Allahabad.  
King George's Medical College, Lucknow.  
Daynand Anglo-Vedic College, Cawnpore.  
European Girls' High School, Allahabad.  
All Saints Diocesan College, Naini Tal.

**EWING CHRISTIAN COLLEGE, Allahabad, United Provinces, India.**

*Terms* : Two a year.

*Students* : 500.

*Budget* : Annual Recurring Expenditure, Rs. 125,000.

**OFFICIALS.**

*President of the Board of Directors.*—Rev. J. J. Lucas, D.D., Katra Mission, Allahabad.

*Principal of College.*—Rev. C. A. R. Janvier, M.A., D.D.

*Vice-Principal.*—P. H. Edwards, M.A., Ph.D.

*Principal of Allahabad Agricultural Institute.*—S. Higginbottom, M.A., B.Sc. (Ag.).

*Vice-Principal of Allahabad Agricultural Institute.*—L. A. Kenoyer, M.A., Ph.D.

**PROFESSORS.**

**ARTS.**

**Professors :**

Rev. C. A. R. Janvier, *English Literature*.

C. D. Thompson, *Economics*.

N. B. Mitra, *Mathematics*.

N. C. Mukerji, *English and Ethics*.

K. M. Sircar, *English and History*.

H. T. Bose, *Logic and English*.

Rev. J. C. Manry, *Psychology*.

Rev. W. E. Weld, *Economics*.

T. C. Blaisdell, jr., *History*.

G. S. Acharya, *Sanskrit*.

(Vacant), *Persian*.

**Assistant Professors :**

R. K. Kumar, *Economics*.

S. P. Andrews, *History*.

**SCIENCE.**

**Professors :**

P. H. Edwards, *Physics*.

N. B. Mitra, *Mathematics*.

**Post-Graduate Courses.—**

Economics (including Economic Theory and Indian Economics) to the M.A. standard.

Philosophy: Logic, Metaphysics, Ethics, Psychology (including Physiological and Experimental Psychology), Indian Philosophy, the History of Philosophy.

**Libraries.—**

General Library of Ewing Christian College, 6,500 volumes, and libraries in connection with the various laboratories. *Librarian* : Vacant.

Library of Allahabad Agricultural Institute. *Librarian* : Rev. A. E. Parker.

**Museum.**—Economic Museum. *Curator* : C. D. Thompson.

**Professors—Continued :**

H. T. Avey, *Physics*.

W. Dudgeon (Miss), *Botany*.

C. C. Palit, *Chemistry*.

A. T. MacPherson, *Chemistry*.

(Vacant), *Zoology*.

**AGRICULTURE.**

**Professors :**

L. A. Kenoyer, *Economic Botany*.

W. Bembower, *Horticulture*.

G. S. Birch, *Animal Husbandry and Dairying*.

A. E. Parker, *Agronomy*.

R. L. Pendleton, *Extension in Gwalior State*.

C. G. Wisner, *Extension in Gwalior State*.

R. N. Chowdhury, *Chemistry and Physics*.

3 Readers, 5 Lecturers, 3 Demonstrators, and 4 other Assistants.

**AFFILIATED INSTITUTIONS.**

Affiliated to the University of Allahabad to the B.A. and B.Sc. Standards in all subjects. M.A. in Philosophy and in Economics.

The Allahabad Agricultural Institute grants its own certificate in agriculture.

**AMERICAN ANTIQUARIAN SOCIETY.** See WORCESTER.

**AMERICAN CHEMICAL SOCIETY.** See NEW YORK.

**AMERICAN COLLEGE.** See MADURA.

**AMERICAN FORESTERS SOCIETY.** See WASHINGTON.

**AMERICAN GEOGRAPHICAL SOCIETY.** See NEW YORK.

AMERICAN HISTORICAL ASSOCIATION. *See* WASHINGTON.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.  
*See* WASHINGTON.

AMERICAN MATHEMATICAL SOCIETY. *See* NEW YORK.

AMERICAN MICROSCOPICAL SOCIETY. *See* BELOIT.

AMERICAN MUSEUM OF NATURAL HISTORY. *See* NEW YORK.

AMERICAN ORIENTAL SOCIETY. *See* NEW YORK.

AMERICAN PHILOSOPHICAL SOCIETY. *See* PHILADELPHIA.

AMERICAN RESEARCH, SCHOOL OF. *See* SANTA FE.

### AMES (Iowa).

IOWA STATE COLLEGE. No particulars received.

EXPERIMENT STATION, U.S. Department of Agriculture.  
*Director.*—C. F. Curtiss.

### AMHERST (Massachusetts).

AMHERST COLLEGE. Amherst, Mass. (1821.)

*Terms:* First semester—September to February.  
Second semester—February to June.

*Students:* 503. *Budget:* \$300,000.

#### OFFICIALS.

*President.*—Alexander Meiklejohn.

*Dean.*—George D. Olds.

*Secretary of the Faculty.*—Thomas C. Esty.

*Recorder.*—Gladys A. Kimball.

*Treasurer.*—Harry W. Kidder.

Degrees conferred.—B.A., M.A.

#### PROFESSORS.

##### FACULTY OF ARTS.

###### Professors :

W. Cowles, *Latin Language and Literature.*  
W. A. Stowell, *Romance Languages.*  
H. de Forest Smith, *Greek.*  
G. Churchill, *English Literature.*  
W. Bigelow, *Music.*  
J. Crook, *Economics.*  
P. Phillips, *Hygiene and Physical Education.*  
A. A. Mackimmie, *Spanish.*  
C. Eastman, *German Language and Literature.*

###### Professors—Continued :

W. J. Newlin, *Philosophy.*  
F. L. Thompson, *History.*  
H. E. Smith, *Romance Languages.*  
W. H. Hamilton, *Economics.*  
S. Young, *English Literature.*  
W. W. Stewart, *Economics.*  
R. Frost, *English Literature.*  
R. G. Gettell, *Political Science.*  
A. P. Fitch, *History of Religion and Biblical Literature.*  
H. P. Gallinger, *History.*  
O. Manthey-Zorn, *German.* [ture.  
A. Schinz, *French Language and Literature.*

**Associate Professors :**

- A. H. Baxter, *Romance Languages*.  
 R. F. Nelligan, *Hygiene and Physical Education*.  
 C. H. Toll, *Philosophy*.  
 C. E. Bennett, *Latin*.  
 G. F. Whieher, *English*.  
 H. W. Litchfield, *Latin*.  
 C. E. Ayres, *Philosophy*.

**FACULTY OF SCIENCE.**

**Professors :**

- A. Meiklejohn, *Logic and Metaphysics*.  
 A. L. Kimball, *Physics*.  
 G. D. Olds, *Mathematics*.  
 D. Todd, *Astronomy and Navigation*.

**Professors—Continued :**

- T. Cushing Esty, *Mathematics*.  
 A. J. Hopkins, *Chemistry*.  
 F. B. Loomis, *Mineralogy and Geology*.  
 H. W. Doughty, *Chemistry*.  
 O. C. Glaser, *Biology*.  
 J. O. Thompson, *Physics*.

**Associate Professors :**

- H. W. Marsh, *Hygiene and Physical Education*.  
 A. S. Goodale, *Botany*.  
 C. W. Cobb, *Mathematics*.  
 G. Scotchard, *Chemistry*.  
 H. H. Plaugh, *Biology*.  
 9 Instructors and 4 Assistants.

**Post-Graduate Courses.**—Courses leading to the M.A. degree.

**Libraries and Museums :**

The Converse Memorial Library, 300,000 volumes. *Librarian* : R. Stillman Fletcher.

The Mather Art Museum contains valuable examples of Ancient Art.

In the biology museum are the Adams collection of shells, a part of Audubon's celebrated collection of birds, a synoptic collection of the animal kingdom, and a collection of fossil vertebrates.

The geology museum has the Woods Cabinet, which contains about twenty-five thousand specimens of minerals, including the general American and European collections, the State Survey collections of New Hampshire, Vermont, Massachusetts, and Connecticut, and the Shepard meteorite collection.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Acting Director.*—F. W. Morse.

**AMRITSAR (India).**

**KHALSA COLLEGE**, Amritsar, Punjab. (1893.)

Affiliated to the University of the Punjab, Lahore.

**OFFICIAL.**

*Principal.*—G. A. Wathen.

**PROFESSORS.**

- G. A. Wathen, *English*.  
 W. H. F. Armstrong, *Chemistry*.  
 N. Singh, *Chemistry*.  
 A. C. C. Hervey, *English and History*.  
 A. Natha, *English and History*.  
 H. Singh, *English and Sanskrit*.  
 K. Singh, *English and Divinity*.  
 M. Hussain, *Persian and Arabic*.  
 H. Chand, *Mathematics*.

- D. Singh, *Mathematics*.  
 K. L. Bhakia, *Biology*.  
 C. Singh,  
 B. R. Clatterji, *History and Economics*.  
 T. Singh, *Philosophy*.  
 H. Singh, *Mathematics and Divinity*.  
 S. C. Singh, *Physics*.  
 Teja Singh, *English and Divinity*.  
 R. Sing, *Botany*.

**ANDOVER THEOLOGICAL SEMINARY.** See CAMBRIDGE (Mass.).

**ANNAPOLIS (Maryland).**

**SAINT JOHN'S COLLEGE**, Annapolis, Maryland, America. (1696.)

*Terms* : Two a year.

*Students* : 234.

**OFFICIALS.**

*Chancellor.*—E. C. Harrington, Governor of Maryland.

*Provost and President of Academic Department.*—T. Fell, Ph.D., LL.D., D.C.L.

*Registrar and Secretary.*—Miss S. Berry.

**Degrees conferred.**—B.A., B.Sc., M.A., M.Sc., Ph.D., L.H.D., LL.D., D.D.

## PROFESSORS.

## Professors :

T. Fell, *Moral Science*.  
 J. B. Rippere, *Latin*.  
 J. B. White, *Greek and Latin*.  
 B. H. Waddell, *Mathematics*.  
 R. H. Ridgely, *Biology*.  
 S. S. Handy, *English*.  
 H. B. Scarborough, *Drawing and Physics*.  
 C. W. Stryker, *History and Political Economy*.

## Professors—Continued :

D. Elliot, *Military Science and Tactics*.  
 L. F. Hildebrandt, *Modern Languages*.  
 W. F. Clayton, *Chemistry*.  
 W. L. Marcy, *Sanitation and Hygiene*.

## Assistant Professors :

T. L. Gladden, *Latin and Mathematics*.  
 R. E. Grove, *Physics and English*.  
 E. T. Fell, *English and History*.  
 V. Lentz, *Mathematics*.

**Library.**—Library Academy Department, 10,000 volumes. *Librarian* : R. E. Grove.

## AFFILIATED INSTITUTE.

The Arts and Sciences Department of the University of Maryland. (See Baltimore.)

## ANN ARBOR.

UNIVERSITY OF MICHIGAN. No particulars received.

## ANTIGONISH (Nova Scotia).

UNIVERSITY OF ST. FRANCIS XAVIER'S COLLEGE.

No particulars received.

ARCHEOLOGICAL INSTITUTE OF AMERICA. *See* WASHINGTON.

## ARMAGH (Ireland).

ARMAGH OBSERVATORY, Armagh. (1790.)

*Director.*—Rev. William Frederick Archdall Ellison, M.A., B.D., F.R.A.S.,  
 F.R. Met. Soc.

ARMSTRONG COLLEGE. *See* DURHAM.

ASIATIC SOCIETY OF BENGAL. *See* CALCUTTA.

ASTROPHYSICAL OBSERVATORY. *See* WASHINGTON.

## ATHENS (Georgia).

UNIVERSITY OF GEORGIA. No particulars received.

## ATHENS (Ohio).

OHIO UNIVERSITY, Athens, Ohio. (1804.)

*Terms* : Two semesters, three special terms, six weeks each.

*Students* : 3,957.

*Budget* : \$355,224,97.

## OFFICIALS.

*President.*—Alston Ellis, A.M., Ph.D., LL.D.

*Dean of College of Liberal Arts.*—E. W. Chubb.

*Dean of College of Normal College.*—J. J. Richeson.

*Director of School of Commerce.*—C. M. Copeland.

*Dean of Women.*—Irma E. Voigt.

*Director of School of Music.*—A. S. Thompson.

**Degrees conferred.**—A.B. and B.S. in Education.



## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

- E. W. Chubb, *English Literature*.  
 J. J. Richeson, *School Administration*.  
 D. J. Evans, *Latin*.  
 J. W. Taylor, *Greek*.  
 F. Treudley, *Philosophy and Psychology*.  
 H. R. Wilson, *English*. [logy.  
 F. S. Coultrap, *Art of Teaching*.  
 T. N. Hoover, *History*.  
 C. L. Martzoff, *History*.  
 W. L. Gard, *History and Principles of Education*.  
 M. T. Noss (Miss), *French*.  
 B. McC. Thompson, *Physiography*.  
 W. H. Cooper, *Public Speaking*.  
 H. D. Simpson, *Economics*.  
 G. R. McLaughlin, *Manual Training*.  
 F. V. Whitehouse, *Spanish*.  
 I. E. Ash, *Secondary Education*.  
 M. L. Stahl (Miss), *Drawing and Painting*.  
 M. J. Brison (Miss), *Public School Drawing*.  
 C. T. McLeod (Miss), *Kindergarten*.  
 M. Tough (Miss), *Home Economics*.

## Associate Professors :

- S. K. Mardis, *History of Education*.  
 E. J. Jones, *History and Civics*.

## Assistant Professors :

- M. E. Moore (Miss), *Latin*.  
 C. N. Mackinnon, *English*.

**Library.**—Carnegie Library. *Head Librarian* : C. G. Matthews. Six Assistants.  
 No Post-Graduate Courses.

## Assistant Professors—Continued :

- C. E. Skinner, *Psychology and Paidology*.  
 B. L. Jefferson, *English*. [logy.  
 C. W. Gill, *English*.  
 M. J. Kimball, *Advertising and Salesmanship*.  
 C. H. Growden, *Psychology and Paidology*.  
 W. H. Fenzel, *Accounting and Business Administration*.  
 C. R. Stearns, *French and Spanish*.

## FACULTY OF SCIENCE.

## Professors :

- A. A. Atkinson, *Physics and Electrical Engineering*.  
 W. F. Mereer, *Biology and Geology*.  
 W. B. Bentley, *Chemistry*.  
 O. Chrisman, *Paidology and Psychology*.  
 L. J. Addicot, *Civil Engineering*.  
 W. F. Copeland, *Agriculture*.  
 W. A. Matheny, *Civic Biology and Botany*.  
 J. R. Morton, *Analytical Chemistry*.  
 R. L. Borger, *Mathematics*.  
 I. F. Stewart, *Mathematics*.

## Associate Professor :

- O. E. Dunlap, *Agriculture*.

## Assistant Professors :

- R. G. Webber, *Physics*.  
 F. B. Gullum, *Chemistry*.  
 O. E. McClure, *Physics*.  
 32 Instructors and 1 Assistant.

## AFFILIATED INSTITUTIONS.

State Normal College.

## AUBURN (Alabama).

## EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director*.—J. F. Duggar.

## AUCKLAND (New Zealand).

AUCKLAND UNIVERSITY COLLEGE, Auckland, New Zealand. (1882.)

*Terms* : Three per year.

## OFFICIALS.

*See* NEW ZEALAND UNIVERSITY.

**Degrees and Hoods.**—*See* NEW ZEALAND UNIVERSITY.

## PROFESSORS.

## Professors :

- H. S. Dettman, *Classics*.  
 C. W. Egerton, *English*.  
 H. W. Segar, *Mathematics*.  
 F. P. Worley, *Chemistry*.  
 G. Owen, *Physics*.  
 J. C. Johnson, *Biology*.

## Professors—Continued :

- W. E. Thomas, *Music*.  
 M. Walker, *Modern Languages*.  
 J. P. Grossman, *Economics and History*.  
 3 Assistants, 2 Demonstrators, 10 Lecturers.

**AUSTIN (Texas).****UNIVERSITY OF TEXAS.** No particulars received.**AUSTRALIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.**See **SYDNEY.****BAHAWALPUR (India).****SADIQ-EGERTON COLLEGE,** Bahawalpur, Punjab. (1882.)

Affiliated to the University of the Punjab, Lahore.

**OFFICIALS.***Principal.*—A. Hamid, B.A.*Librarian.*—Bashir Ahmad.**PROFESSORS.**A. Hamid, *English and Philosophy.*A. Lahidie, *English and History.*M. A. Khan, *English and Mathematics.*H. Ahmad, *Arabic and Persian.*Pt. R. Claran, *Sanskrit.***BALA (North Wales).****THE CALVINISTIC METHODIST OR WELSH PRESBYTERIAN THEOLOGICAL COLLEGE,** Bala, North Wales. (1837.)*Terms:* Three each year: September to Christmas; Christmas to Easter; Easter to Midsummer.*Registrar.*—Rev. J. T. Alun Jones.**Degrees conferred.**—The College is an Associated College of the University of Wales. The curriculum is so arranged as:

1. To prepare candidates for the Christian Ministry.

2. To prepare for the Examinations in Theology prescribed by the University of Wales for the degree of B.D.

**PROFESSORS.**Rev. D. Phillips, *Christian Doctrine and the Philosophy and History of Religion.*Rev. W. Porter, *Hebrew and Old Testament Exegesis.*Rev. J. O. Thomas, *Hellenistic Greek and New Testament Exegesis.*Rev. R. Morris, *Church History.***BALIGANJ (Calcutta).****DIOCESAN COLLEGE,** Baliganj, Calcutta. (1907.)

College for Indian Ladies. Affiliated to the University of Calcutta.

*Terms:* Three a year.*Students:* 101.**Degrees conferred.**—As in Calcutta University.**OFFICIAL.***Principal.*—Sister Mary Victoria, C.S.J.B.**PROFESSORS.**H. Jackson (Miss), *Botany.*J. M. Kell (Miss), *English.*E. Jackson (Miss), *Mathematics.*Wright (Miss), *History.*C. Dass (Miss), *Logic.*N. Mukerji, *Economics.*K. Kundu *Sanskrit.*Pandit V. A. Mukerjee, *Sanskrit and Bengali.*B. Hurst (Miss), *Training Class.***Post-Graduate Courses.**—For Bachelor of Training of the Calcutta University.**Library.**—A College Library.**BALTIMORE (Maryland).****JOHNS HOPKINS UNIVERSITY,** Baltimore, Maryland. (1876.)*Terms:* In Philosophy and Engineering, 2 terms ("semesters")—October to February  
February to June. In Medicine and Hygiene, 3 terms ("trimesters")—October to December, January to March, April to June.

*Students* (1918-19): College of Arts and Sciences, 350; Department of Engineering, 269; Medical School, 382; School of Hygiene, 22; College of Arts and Sciences, 350  
*Department of Engineering*, 269; Graduate School, 135.  
*Budget* (disbursement for all purposes, 1917-18): \$688,000.

## OFFICIALS.

*President*.—Frank J. Goodnow.  
*Dean of the College Faculty*.—John H. Latane.  
*Dean of the Medical Faculty*.—J. Whitridge Williams.  
*Director of the School of Hygiene and Public Health*.—William H. Welch.  
*Registrars*.—Thos. R. Ball and Geo. J. Coy.  
*Treasurer*.—W. Graham Boyce.  
*Librarian*.—M. Lee Raney.

**Degrees conferred**.—Bachelor of Arts, Bachelor of Engineering, Bachelor of Science, Bachelor of Science in Chemistry, Bachelor of Science in Hygiene, Master of Arts, Master of Engineering (Civil, Electrical, Mechanical), Doctor of Philosophy, Doctor of Medicine, Doctor of Public Health, Doctor of Science in Hygiene.

## PROFESSORS.

### FACULTY OF PHILOSOPHY.

#### Professors :

P. Haupt, *Semitic Languages*.  
M. Bloomfield, *Sanskrit and Comparative Philology*.  
H. Wood, *German*.  
J. W. Bright, *English Literature*.  
H. E. Greene, *English*.  
L. S. Hulburt, *Mathematics*.  
J. S. Ames, *Physics*.  
F. Morley, *Mathematics*.  
W. J. A. Bliss, *Physics*.  
H. F. Reid, *Dynamic Geology and Geography*.  
R. W. Wood, *Experimental Physics*.  
J. H. Hollander, *Political Economy*.  
E. B. Mathews, *Mineralogy and Petrography*.  
J. M. Vincent, *European History*.  
W. W. Willoughby, *Political Science*.  
D. S. Johnson, *Botany*.  
H. Collitz, *Germanic Philology*.  
H. S. Jennings, *Zoology*.  
W. P. Mustard, *Latin*.  
E. F. Buchner, *Education*.  
J. B. Watson, *Experimental and Comparative Psychology*.  
E. A. Andrews, *Zoology*.  
B. E. Livingston, *Plant Physiology*.  
A. O. Lovejoy, *Philosophy*.  
C. K. Swartz, *Geology*.  
G. E. Barnett, *Statistics*.  
D. M. Robinson, *Classical Archeology and Epigraphy*.  
J. E. Gilpin, *Chemistry*.  
J. H. Latane, *American History*.  
C. W. E. Miller, *Greek*.  
K. Dunlap, *Experimental Psychology*.  
J. C. W. Fraser, *Analytical Chemistry*.  
G. R. Guild, *Military Science and Tactics*.  
S. O. Mast, *Zoology*.  
E. W. Berry, *Paleontology*.

#### Associate Professors :

W. Kurrelmeyer, *German*.  
A. H. Pfund, *Physics*.  
B. F. Lovelace, *Chemistry*.  
J. C. French, *English*.  
A. Ember, *Semitic Languages*.  
A. Cohen, *Mathematics*.  
R. V. D. Magoffin, *Greek and Roman History*.  
R. B. Roulston, *German*.  
J. T. Singewald, jr., *Economic Geology*.  
D. S. Blondheim, *French*.  
W. A. Patrick, *Chemistry*.  
R. P. Cowles, *Zoology*.

#### Associates :

F. R. Blake, *Oriental Languages*.  
H. Slonimsky, *Philosophy*.  
F. E. Bamberger (Miss), *Education*.  
G. Gruenbaum, *Romance Languages*.  
F. D. Murnaghan, *Applied Mathematics*.  
W. O. W. Thornton, *Political Economy*.

### FACULTY OF MEDICINE.

#### Professors :

W. S. Halsted, *Surgery*.  
J. J. Abel, *Pharmacology*.  
W. H. Howell, *Physiology*.  
J. W. Williams, *Obstetrics*.  
L. F. Barker, *Clinical Medicine*.  
W. S. Thayer, *Medicine*.  
W. Jones, *Physiological Chemistry*.  
A. Meyer, *Psychiatry*.  
J. M. T. Finney, *Clinical Surgery*.  
J. Howland, *Pediatrics*.  
W. H. Lewis, *Physiological Anatomy*.  
W. G. MacCallum, *Pathology*.  
F. R. Sabin (Miss), *Histology*.  
T. S. Cullen, *Clinical Gynecology*.  
L. H. Weed, *Anatomy*.



**Associate Professors :**

- W. W. Russell, *Clinical Gynecology*.  
R. L. Randolph, *Clinical Ophthalmology and Otolaryngology*.  
T. B. Fletcher, *Clinical Medicine*.  
J. C. Boodgood, *Clinical Surgery*.  
M. Broedel, *Art as Applied to Medicine*.  
W. S. Baer, *Clinical Orthopedic Surgery*.  
D. R. Hooker, *Physiology*.  
T. R. Boggs, *Clinical Medicine*.  
J. T. Geraghty, *Clinical Urology*.  
F. H. Baetjer, *Röntgenology*.  
S. J. Crowe, *Clinical Laryngology*.  
C. G. Guthrie, *Medicine*.  
G. S. Heuer, *Surgery*.  
A. K. Krause, *Medicine*.  
D. W. Wilson, *Physiological Chemistry*.  
R. H. Follis, *Clinical Surgery*.  
T. R. Brown, *Clinical Medicine*.  
A. R. Dochez, *Medicine*.  
W. W. Palmer, *Medicine*.  
C. D. Snyder, *Physiology*.  
L. V. Hamman, *Clinical Medicine*.  
E. A. Park, *Pediatrics*.  
K. D. Blackfan, *Pediatrics*.  
G. W. Corner, *Anatomy*.  
C. M. Campbell, *Psychiatry*.

**Associates :**

- F. R. Smith, *Clinical Medicine*.  
G. Le Roy Hunner, *Clinical Gynecology*.  
L. P. Hamburger, *Clinical Medicine*.  
J. H. M. Knox, jr., *Clinical Pediatrics*.  
E. H. Richardson, *Clinical Gynecology*.  
C. R. Austrian, *Clinical Medicine*.  
W. A. Baetjer, *Clinical Medicine*.  
P. D. Lamson, *Exper. Therapeutics*.  
E. R. Strobil, *Clinical Dermatology*.  
D. M. Davis, *Urology*.  
G. E. Bennett, *Clinical Orthopedic Surgery*.  
A. L. Bloomfield, *Medicine*. [ology.  
S. Bayne-Jones, *Pathology and Bacteriology*.  
G. L. Taneyhill, jr., *Clinical Neurology*.  
C. Bagley, jr., *Experimental Neurology*.  
C. M. Byrnes, *Clinical Neurology*.  
S. R. Miller, *Clinical Medicine*.  
E. W. Bridgman, *Medicine*.  
W. A. Frontz, *Clinical Urology*.  
C. C. Macklin, *Anatomy*.  
R. S. Cunningham, *Anatomy*.  
C. H. Henser, *Anatomy*.  
H. H. Bullard, *Pathology*.  
L. D. Felton, *Bacteriology*.

**Post-Graduate Courses.—**

1. Arts and Sciences, including Classical, Modern, and Oriental Languages and Archaeology, History, Political Economy and Political Science, Philosophy, Psychology, and Education, Mathematics, Physics, Chemistry, Geology and Mineralogy, Zoology, Botany, and Plant Physiology.
2. Medical Sciences.
3. Hygiene and Public Health.
4. Engineering (Civil, Electrical, Mechanical).

*Librarian :* McKendree L. Raney.

**Associates—Continued :**

- P. W. Clough, *Clinical Medicine*.  
A. Keidel, *Clinical Medicine*.  
W. E. Dandy, *Surgery*.  
E. D. Plass, *Obstetrics*.  
L. W. Ketron, *Clinical Dermatology*.  
G. F. Powers, *Clinical Pediatrics*.  
H. R. Slack, jr., *Clinical Laryngology*.

**Clinical Professors :**

- S. Theobald, *Ophthalmology*.  
H. M. Thomas, *Neurology*.  
J. W. Lord, *Dermatology*.  
T. C. Gilchrist, *Dermatology*.  
H. J. Berkley, *Psychiatry*.  
H. H. Young, *Urology*.

**FACULTY OF HYGIENE AND PUBLIC HEALTH.**
**Professors :**

- [nology.  
W. H. Welch, *Bacteriology and Immunology*.  
W. H. Howell, *Physiology*.  
E. V. McCollum, *Bio-Chemistry*.  
R. Pearl, *Biometry and Vital Statistics*.

**Associate Professors :**

- W. W. Ford, *Bacteriology*.  
C. G. Bull, *Immunology*.  
D. Klein, *Bio-Chemistry*.  
L. J. Reed, *Biometry and Vital Statistics*.

**Associates :**

- G. H. Robinson, *Bacteriology*.  
R. A. Spaeth, *Physiology*. [tistics.  
J. R. Minor, *Biometry and Vital Statistics*.  
R. W. Hegner, *Protozoology*.  
W. W. Cort, *Helminthology*.  
W. C. Moore, *Immunology*.  
A. L. Meyer, *Physiology*.  
R. R. Hyde, *Immunology*.

**FACULTY OF ENGINEERING.**
**Professors :**

- J. B. Whitehead, *Electrical Engineering*.  
C. C. Thomas, *Mechanical Engineering*.  
C. J. Tilden, *Civil Engineering*.

**Associate Professors :**

- A. G. Christie, *Mechanical Engineering*.  
W. B. Kouwenhoven, *Electrical Engineering*.  
J. H. Bringham, *Civil Engineering*.  
J. H. Gregory, *Civil Engineering*.

**Associates :**

- M. W. Pullen, *Electrical Engineering*.  
J. C. Smallwood, *Mechanical Engineering*.

## UNIVERSITY OF MARYLAND, Baltimore, Maryland, U.S.A. (1807.

Terms : Two a year.

Students : 223.

## OFFICIALS.

Dean of Medical Department.—J. M. H. Rowland, M.D.

Dean of Dental Department.—T. O. Heatwole, M.D., D.D.S.

Dean of Pharmacy.—E. F. Kelly, Phar.D.

Dean of Law.—Hon. H. D. Harlan.

Degrees conferred.—D.D.S., Phar.D., LL.B.

## PROFESSORS.

## Professors :

R. Winslow, *Surgery*.  
 L. E. Neale, *Obstetrics*.  
 C. L. Davies, *Anatomy*.  
 J. C. Hemmeter, *Clinical Medicine*.  
 A. M. Shipley, *Surgery*.  
 S. K. Merrick, *Diseases of the Throat and Nose*.  
 R. B. Warfield, *Surgery*.  
 G. Wilson, *Medicine*.  
 W. F. Loekwood, *Medicine*.  
 G. W. Dobbins, *Obstetrics and Gynecology*.  
 W. R. Stokes, *Bacteriology*.  
 H. Friedenwald, *Ophthalmology and Otolaryngology*.  
 A. C. Harrison, *Surgery*.  
 C. B. Gamble, *Medicine*.  
 W. S. Gardner, *Gynecology*.  
 S. McCleary, *Pathology*.  
 J. Friedenwald, *Gastro-Enterology*.  
 J. M. H. Rowland, *Obstetrics*.  
 H. Woods, *Ophthalmology and Otolaryngology*.  
 C. E. Simon, *Clinical Pathology*.  
 A. McGlannan, *Clinical Surgery and Surgical Pathology*.  
 J. S. Fulton, *State Medicine*.  
 H. Adler, *Clinical Medicine*.  
 T. C. Gilchrist, *Dermatology*.  
 F. Martin, *Clinical and Operative Surgery*.  
 C. G. Hill, *Psychiatry*.  
 A. C. Pole, *Descriptive Anatomy*.  
 J. D. Blake, *Clinical Surgery*.  
 C. O'Donovan, *Clinical Medicine and Pediatrics*.  
 G. M. Linthicum, *Diseases of the Rectum and Colon*.  
 W. B. Perry, *Clinical Gynecology*.  
 T. B. Marden, *Histology and Embryology*.  
 J. M. Hundley, *Clinical Gynecology*.  
 R. T. Taylor, *Orthopedic Surgery*.  
 J. R. Winslow, *Diseases of the Throat and Nose*.  
 J. E. Gichner, *Clinical Medicine and Physical Therapeutics*.  
 C. W. McElfresh, *Clinical Medicine*.  
 I. J. Spear, *Neurology and Clinical Psychiatry*.  
 E. N. Brush, *Psychiatry*.  
 C. H. Jones, *Hygiene and Public Health*.

## Professors—Continued :

J. Ruhrah, *Pediatrics*.  
 C. F. Blake, *Proctology*.  
 F. D. Sanger, *Diseases of the Throat and Nose*.  
 B. McGlone, *Physiology*.  
 G. C. Lockard, *Clinical Medicine*.  
 S. J. Fort, *Materia Medica*.  
 C. E. Brack, *Clinical Obstetrics*.  
 H. G. Beck, *Clinical Medicine*.  
 A. Cotton, *Orthopedic Surgery and Roentgenology*.  
 A. C. Gillis, *Neurology and Clinical Psychiatry*.  
 J. H. Branham, *Clinical Surgery*.  
 B. P. Muse, *Clinical Obstetrics*.  
 W. T. Watson, *Therapeutics*.  
 C. L. Summers, *Clinical Pediatrics*.  
 H. R. Spencer, *Pathology*.  
 H. B. Wylie, *Physiological Chemistry*.  
 H. J. Walton, *Roentgenology*.  
 R. E. Myers, *Pharmacology*.  
 J. G. Jay, *Surgery*.  
 N. Winslow, "  
 P. Edmunds, *Genito-Urinary Diseases*.  
 W. Tarun, *Ophthalmology and Otolaryngology*.  
 W. D. Wise, *Surgery*.  
 E. B. Friedenwald, *Pediatrics*.  
 C. Riely, *Orthopedic Surgery*.  
 S. M. Cone, "  
 W. S. Smith, *Gynecology*.  
 J. W. Holland, *Surgery*.  
 A. J. Underhill, *Genito-Urinary Diseases*.  
 E. B. Freeman, *Gastro-Enterology*.  
 J. C. Lumpkin, *Surgery*.  
 T. F. Leitz, *Gastro-Enterology*.  
 J. W. Downey, *Otolaryngology*.

## Associate Professors :

W. B. Wolf, *Genito-Urinary Diseases*.  
 H. Brent, *Gynecology*.  
 M. Rosenthal, *Genito-Urinary Surgery and Dermatology*.  
 H. C. Knapp, *Medicine*.  
 A. Samuels, *Gynecology*.  
 W. W. Requardt, *Surgery*.  
 G. W. Mitchell, *Diseases of the Throat and Nose*.  
 L. J. Rosenthal, *Proctology*.  
 J. R. Abercrombie, *Dermatology*.  
 C. C. Conser, *Physiology*.  
 H. J. Maldeis, *Clinical Pathology*.

# Associate Professors—Continued :

- J. D. Reeder, *Proctology*.  
H. C. Blake, *Clinical Surgery*.  
R. P. Bay, " "  
F. S. Lynn, *Surgery*.  
G. M. Settle, *Neurology and Clinical Medicine*.  
C. C. W. Judd, *Medicine*.  
E. H. Hutchins, *Surgery*.  
T. R. Chambers, "  
H. B. Stone, "  
R. W. Locher, *Operative and Clinical Surgery*.  
J. K. B. E. Seegar, *Obstetrics*.  
S. G. Davis, *Anesthesia*.  
H. D. McCarthy, *Clinical Medicine*.  
31 Associates, 2 Demonstrators, 20 Instructors, and 27 Assistants.

## THE DENTAL DEPARTMENT.

### Professors :

- T. O. Heatwole, *Dental Materia Medica and Therapeutics*.  
J. W. Smith, *Dental Prosthesis*.  
E. E. Cruzen, *Crown and Bridge Work and Ceramics*.  
E. F. Kelly, *Chemistry and Metallurgy*.  
E. Baskin, *Operative Dentistry and Orthodontia*.  
A. H. Paterson, *Dental Technics*.  
J. B. Robinson, *Clinical Dentistry and Dental Anatomy*.  
B. M. Hopkinson, *Oral Hygiene and Dental History*.  
R. P. Day, *Oral Surgery*.  
R. L. Mitchell, *Bacteriology and Pathology*.  
J. L. Wright, *Theoretical and Practical Anatomy*.  
H. J. Maldeis, *Histology*.  
1 Lecturer, 4 Instructors, 3 Demonstrators.

## LAW DEPARTMENT.

### Professors :

- A. Bagby, *Testamentary Law*.  
R. Barton, *Commercial Law*.  
F. Bramble, *Commercial Law, and Bills and Notes*.  
J. W. Bryan, *Common Carriers*.

### Professors—Continued :

- H. Bryant, *Practice in State Courts*.  
W. C. Chesnut, *Insurance*.  
W. B. Coe, *Title and Conveyancing*.  
J. U. Dennis, *Personal Property, Including Bailments*.  
E. T. Dickerson, *Contracts*.  
E. Frank, *Torts*.  
J. P. Gorter, *Pleading and Evidence*.  
H. D. Harlan, *Domestic Relations*.  
O. McH. Howard, *Equity Jurisprudence*.  
A. L. Jackson, *Conflict of Laws, and International Law*.  
S. H. Lauchheimer, *Bankruptcy and Banking Law*.  
S. S. Janney, *Real Property*.  
A. S. Niles, *Constitutional Law*.  
E. O'Dunne, *Criminal Law and Medical Jurisprudence*.  
A. C. Ritchie, *Elementary Law*.  
J. F. Rose, *Jurisdiction and Procedure of the Federal Courts, Admiralty, Patents, Trade-marks and Copy-rights*.  
G. R. Sappington, *Practice Court*.  
M. A. Soper, *Corporations*.  
C. A. Tucker, *Equity Procedure*.  
J. N. Ulman, *Sales of Personal Property and Agency*.

## DEPARTMENT OF PHARMACOLOGY.

### Professors :

- D. M. R. Culbreth, *Materia Medica, Botany and Pharmacognosy*.  
D. Base, *Chemistry and Vegetable Histology*.  
H. P. Hynson, *Commercial Pharmacy and Store Practice*.  
E. F. Kelly, *Theoretical and Applied Pharmacy*. (Dean of the Faculty.)  
J. C. Wolf, *Dispensing*.  
R. L. Mitchell, *Physiology and Hygiene*.  
H. J. Maldeis, *Bacteriology*.

### Associate Professors :

- C. C. Plitt, *Botany, Materia Medica and Vegetable Histology*.  
F. Lentz, *Pharmacy*.  
H. E. Wich, *Chemistry*.  
1 Lecturer, 1 Demonstrator.

Post-Graduate Courses.—In all medical branches.

Library.—Medical Library. Librarian : Mrs. R. L. Briscoe.

THE CARNEGIE INSTITUTION DEPARTMENT OF EMBRYOLOGY, Johns Hopkins Medical School, Baltimore, Maryland. (1913.)

## OFFICIALS.

Director.—Franklin P. Mall.

Investigatory staff of 5 members.

Researches chiefly concern human Embryology.

**GOUCHER COLLEGE**, Baltimore, Maryland. (1885.)

Goucher College is one of the six leading colleges for women in the United States. In the survey made by the United States Bureau of Education, six colleges for women were placed in Class I., among which was Goucher College. Only first-class undergraduate work is attempted. The students of Goucher College, however, show a very high percentage among the number of students at universities and post-graduate institutions.

*Terms*, two semesters in school year.

*Students* (1918-19), 712.

**OFFICIALS.**

*President*.—William Westley Guth, Ph.D.

*Dean*.—Eleanor L. Lord, Ph.D.

*Acting Dean*.—Eugene Newton Curtis, Ph.D.

*Assistant Dean*.—Ala. E. Winslow, A.M.

*Registrar*.—Carrie Mae Probst, A.B.

*Student Counsellor*.—Elizabeth C. Mason, A.B.

*Librarian*.—Eleanor W. Falley, B.S.

**Degree conferred**.—B.A.

**Professors :**

Clara L. Bacon, *Mathematics*.

Niels H. Debel, *Social Sciences*.

Raymond Philip Dougherty, *Biblical Literature*.

Hans Froelicher, *German*.

Annette B. Hopkins, *English*.

Jessie L. King, *Physiology*.

Ernest P. Kuhl, *English*.

Howard Huntley Lloyd, *Chemistry*.

William H. Longley, *Biology*.

Eleanor L. Lord, *History*.

Agnes Low Rogers, *Education*.

Samuel N. Taylor, *Physics*.

Thaddeus P. Thomas, *Social Science*.

Lilian Welsh, *Physiology and Hygiene*.

Ruth Wheeler, *Home Economics*.

**Associate Professors :**

Gertrude Carman Bussey, *Philosophy*.

Eugene Newton Curtis, *History*.

Herman Louis Ebeling, *Greek*.

**Associate Professors—Continued :**

Katherine Jeanne Gallagher, *History*.

Florence Parthenia Lewis, *Mathematics*.

Adeline Pellissier, *French*.

Stuart A. Queen, *Constructive Philanthropy*.

E. B. Renter, *Sociology*.

Mary Wilhelmine Williams, *History*.

**Assistant Professors :**

Harry T. Baker, *English*.

Ethel Bowman, *Psychology*.

Ella Lonn, *History*.

Stella McCarty, *Education*.

Raleigh Webster Stone, *Economics*.

Emma Curtiss Tucker, *English*.

Ola Elizabeth Winslow, *English*.

Robert Shafer, *English*.

Wilfred A. Beardsley, *Romanic Languages*.

19 Instructors, 18 Assistants.

**Museums.—**

General Museum, containing valuable ancient and modern Indian collections.

Babylonian Museum, with over one thousand Babylonian and Syrian tablets.

Biological Museum.

**BANGOR (Wales).**

**UNIVERSITY COLLEGE OF NORTH WALES**, Bangor. (1884.)

A Constituent College of the University of Wales.

For the purposes of residence, the two Training Colleges and the two Theological Colleges (Congregational and Baptist) situated in Bangor.

*Terms* : Three a year.

*Students* : 500.

**Budget :**

Government Grant	..	..	..	..	£14,000
Total Receipts	..	..	..	..	£23,000
Expenditure	..	..	..	..	£24,000



## OFFICIALS.

*President.*—The Right Hon. Lord Kenyon, K.C.V.O.

*Principal.*—Sir H. R. Reichel, M.A., LL.D.

*Secretary and Registrar.*—J. E. Lloyd, M.A., D.Litt.

## Degrees conferred.—

Faculty of Arts: B.A., M.A., D.Litt., D.Phil.

„ Science: B.Sc., M.Sc., D.Sc.

„ Music: B.Mus., M.Mus., D.Mus.

„ Law: LL.B., LL.M., LL.D.

„ Theology: B.D., D.D.

„ Medicine: M.B., B.Ch., M.Ch., M.D.

*Hoods.*—Bachelors' hoods are of the Oxford form; Masters' and Doctors' hoods are made of black stuff or silk, except in the Faculty of Music in which the hoods are made of dark blue silk. Masters' hoods are made of black silk, and Doctors' hoods of scarlet cloth. Bachelors' hoods are bordered, and Masters' and Doctors' hoods lined with silk of the colours proper to their respective faculties.

The colours proper to the respective faculties are:

The Faculty of Arts: Mazarin blue shot with green.

The Faculty of Science: Bronze colour (yellow shot with black).

The Faculty of Music: Pearl colour (a shot silk of three hues).

The Faculty of Law: Red shot with purple.

The Faculty of Theology: Mazarin blue shot with red.

The Faculty of Medicine: Green shot with black, edged with white.

## PROFESSORS.

## Professors : ARTS.

T. Hudson-Williams, *Greek*.

E. V. Arnold, *Latin*.

H. G. Wright, *English Language and Literature*.

Sir J. Morris Jones, *Welsh*.

O. H. Fynes-Clinton, *French and Romance Philology*.

T. W. Davies, *Semitic Languages*.

J. E. Lloyd, *History*.

Sir H. R. Reichel, *Constitutional History*.

J. Gibson, *Logic and Philosophy*.

R. L. Archer, *Education*.

## Lecturers :

A. S. Turberville, *History*.

A. Paterson (Miss), *Education*.

R. Richards, *Economics*.

I. Williams, *Welsh Literature*.

## Professors : SCIENCE.

G. H. Bryan, *Mathematics*.

E. Taylor Jones, *Physics*.

## Professor —Continued :

K. J. P. Orton, *Chemistry*.

R. W. Phillips, *Botany*.

P. J. White, *Zoology*.

R. G. White, *Agriculture*.

F. Story, *Forestry*.

## Advisers :

R. Al n Roberts, *Agricultural Botany*.

G. W. Robinson, *Agricultural Chemistry*.

## Lecturers :

W. E. H. Berwick, *Mathematics*.

G. B. Mathews, *Mathematics*.

W. Morris Jones, *Physics*.

E. Robinson, *Chemistry*.

G. Walworth, *Agricultural Chemistry*.

T. Whitehead, *Agricultural Botany*.

## County Organisers :

I. Jones, *Agriculture*.

G. Jones

20 Assistant Lecturers, 18 Instructors, 6 Instructors.

**Post-Graduate Courses.**—Provision is made for post-graduate work in all subjects taught at the College. Special facilities are provided for research in Welsh History, the Celtic Languages, and cognate subjects.

## Libraries.—

Arts and Welsh Library.

Science and Technical Library. 50,000 volumes. *Hon. Librarian* : J. E. Lloyd, M.A., D.Litt.

**Museum.**—College Museum. *Curator* : P. J. White, M.B., F.R.S.E.

**BANGOR JOINT SCHOOL OF UNIVERSITY THEOLOGICAL STUDIES, Bangor.**

- (a) The Bala-Bangor Independent College. (1841.)  
 (b) The North Wales Baptist College. (1862).

For the purposes of teaching the B.D. Syllabus of the University of Wales, the Staffs of the two Colleges are united, and the two Colleges together constitute one of the Associated Theological Colleges in the University of Wales, under the title, the "Bangor Joint School of University Theological Studies."

*Terms* : Three per year.

*Students* : 60.

**OFFICIAL.**

*Principals.*—T. Rees, M.A. (Independent College).  
 S. Morris, M.A. (Baptist College).

*Degrees conferred.*—B.D. degree of the University of Wales.

**PROFESSORS.**

T. Rees, *Christian Doctrine and Philosophy of Religion*.  
 T. Rhys, *New Testament Exegesis*.  
 J. Morgan Jones, *History of the Christian Church and Christian Education*.

S. Morris, *New Testament Greek*.  
 J. T. Evans, *Hebrew*.  
 (Vacant), *Homiletics and Pastoral Theology*.

*Post-Graduate Courses.*—The work is all of a post-graduate nature. All B.D.'s of Wales must first have an Arts or Science degree.

*Libraries.*—Each of the two Colleges has its own Library of Theological and Philosophical books.

**AFFILIATED INSTITUTIONS.**

The two Colleges are distinct institutions, but are amalgamated for all purposes of teaching, and in the University of Wales form one of its Associated Colleges.

**BANKURA (India).**

**WESLEYAN COLLEGE, Bankura, Bengal. (1903.)**

*Terms* : Those of the Calcutta University.

*Students* : 412.

**OFFICIAL**

*Principal.*—A. E. Brown, M.A., B.Sc.

**PROFESSORS.**

Rev. A. E. Brown, *Mathematics*.  
 Rev. E. J. Thompson, *English*.  
 Rev. A. R. Spooner, "  
 A. E. Brown (Mrs), "  
 B. B. Banerji "  
 S. Karmakar, *Mathematics*.  
 R. S. Ghosh, *Sanskrit*.

A. M. Kabyatirtha, *Sanskrit*.  
 J. C. Banerji, *Economics*.  
 J. C. Guha, *History*.  
 R. C. Sen, *Philosophy*.  
 S. S. Banerji, *Logic*.  
 R. C. Banerji, *Physics*.  
 P. K. Banerji, *Chemistry*.

**BARBADOS (West Indies).**

**CODRINGTON COLLEGE, Barbados. (1710.)**

Lieut.-Col. Christopher Codrington, Captain-General of the Leeward Islands, left his mansion and estates to S.P.G. in 1710 for the purpose of founding a college for the evangelisation of the negro population.

Affiliated to Durham University, England.

*Terms* : Three per year—October to June. *Students* : 16.

*Principal.*—Rev. J. C. Wippell, M.A. (Ox.) B.D., (Lond.).

Degrees and Hoods as Durham University.

## PROFESSORS.

Rev. E. J. Lee, *Hebrew and Theology*. | O. Emitage, *Mathematics*.  
W. C. Dunlop, *Classics*. | B. Clarke, *Medicine*.

**Post-Graduate Courses.**—B.D. Durham.

**Institute.**—Rawle Training Institute for male and female Elementary Teachers, run in connection with the College.

College Museum.

Library, about 6,000 volumes.

## IMPERIAL DEPARTMENT OF AGRICULTURE, Barbados. (1898.)

## STAFF.

*Imperial Commissioner of Agriculture for the West Indies.*—Sir Francis Watts, K.C.M.G., D.Sc., F.I.C., F.C.S.

*Entomologist.*—H. A. Ballou, M.Sc.

*Mycologist.*—W. Nowell, D.I.C.

*Scientific Assistant.*—W. R. Dunlop.

*Chief Clerk.*—A. G. Howell.

The Imperial Commissioner of Agriculture is in administrative charge of the botanic and experiment stations, maintained for the distribution of economic plants and the improvement of sugar, cacao, lime fruit, cotton, and other crops, and of the agricultural schools and local experiment plots at Grenada, St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands. He visits these Colonies when required to afford assistance in regard to the administration of the local agricultural departments, the outbreak of diseases, and the general development of planting industries. His services are also available as Consulting Officer in agricultural matters to the Governments of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda.

## Publications.—

The West Indian Bulletin (quarterly).

The Agricultural News (fortnightly.)

## BATON ROUGE (Louisiana).

## EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—W. R. Dodson.

## BEDFORD COLLEGE FOR WOMEN. See LONDON.

## BEHAR NATIONAL COLLEGE. See PATNA.

## BELFAST.

## QUEEN'S UNIVERSITY, Belfast. (1845.)

*Terms* : Three per year.

## OFFICIALS.

*Visitor.*—His Majesty the King.

*Chancellor.*—The Right Hon. the Earl of Shaftesbury, K.C.V.O., K.P., LL.D.

*Pro-Chancellors.*—

Sir H. Shaw Wilkinson, LL.D., D.L.

Prof. Sir Samuel Dill, M.A., Litt.D., LL.D.

The Right Hon. Sir J. Newell Jordan, M.A., K.C.B., K.C.M.G., G.C.I.E.

*President and Vice-Chancellor.*—The Rev. Thomas Hamilton, M.A., D.D., LL.D.

*Deans of Faculties* :

*Arts.*—Prof. A. C. Dixon, M.A., Sc.D., F.R.S.

*Science.*—(Vacant).

*Law.*—Prof. J. S. Baxter, LL.D.

*Medicine.*—Prof. Wm. St. Clair Symmers, M.B.

*Commerce.*—Prof. H. O. Meredith, M.A., M.Com.

*Registrar.*—Prof. Thomas Sinclair, C.B., M.D., M.Ch., F.R.C.S.Eng.

*Secretary.*—John M. Finnegan, B.A., B.Sc.

*Bursar.*—John Green, C.A.

PROFESSORS.

Professors :

Sir S. Dill, *Greek*.  
 R. M. Henry, *Latin*.  
 A. C. Dixon, *Mathematics*.  
 G. G. Smith, *English Literature*.  
 D. L. Savory, *French*.  
 J. E. Todd, *Modern History*.  
 R. A. Williams, *German*.  
 H. O. Meredith, *Economics*.  
 J. Laird, *Logic and Metaphysics*.  
 W. J. McCallister, *Education*.  
 W. B. Morton, *Physics*.  
 G. Wilson, *Zoology*.  
 (Vacant), *Botany*.  
 F. H. Hummel, *Civil Engineering*.  
 J. A. Strahan, *Jurisprudence and Roman Law*.  
 J. S. Baxter, *English Law*. [Law.]  
 T. H. Milroy, *Physiology*.  
 W. St. C. Symmers, *Pathology*.  
 T. Sinclair, *Surgery*.  
 J. A. Lindsay, *Medicine*.  
 Sir J. Byers, *Midwifery*.  
 T. Walmsley, *Anatomy*.  
 A. W. Stewart, *Chemistry*.

Lecturers :

A. O. Belfour, *English Language*.  
 Rev. F. W. O'Connell, *Celtic*.

Lecturers—Continued :

C. Gill, *Economic History*.  
 J. A. Dorward, *Moral Philosophy and History of Philosophy*.  
 Rev. D. O'Keeffe, *Scholastic Philosophy*.  
 L. Walker, *Music*.  
 R. T. Beatty, *Physics*.  
 J. Wylie, "  
 A. K. Macbeth, *Organic Chemistry*.  
 A. R. Derryhouse, *Geology and Geography*.  
 (Vacant), *Commercial Geography*.  
 J. A. Milroy, *Bio-Chemistry*.  
 J. A. Craig, *Ophthalmology and Otology*.  
 W. J. Wilson, *Hygiene and Sanitary Science*.  
 W. St. Clair Symmers, *Medical Jurisprudence*.  
 T. Houston, *Medical Jurisprudence*.  
 P. T. Crymble, *Applied Anatomy*.  
 H. W. Bailie, *Public Health Administration*.  
 (Vacant), *Pharmacology*.  
 H. Oughton, *Accountancy*.  
 4 Clinical Lecturers, 1 Teacher.

BELOIT (Wisconsin).

BELOIT COLLEGE. No particulars received.

THE AMERICAN MICROSCOPICAL SOCIETY, Beloit College, Beloit, Wisconsin. (1878.)

OFFICIALS.

*President*.—Prof. L. E. Griffin, University of Pittsburg, Pittsburg, Pa.

*Secretary*.—Prof. Paul S. Welch, University of Michigan, Ann Arbor, Mich.

Publishes its Transactions as a Quarterly Journal. Is now in its 38th Volume.

*Object* : The encouragement and publication of research in microscopy and in the fields served by the microscope.

Endowment fund in aid of research, \$6,000.

BERKELEY (California).

UNIVERSITY OF CALIFORNIA, Berkeley, California. (1860.)

*Sessions* : Two a year.

OFFICIALS.

*President*.—B. I. de Wheeler.

*Secretary*.—Morse A. Cartwright.

*Librarian*.—H. L. Lepp, A.B.

Degrees conferred.—A.B., B.S. (in Commerce, Agriculture, Mechanics, Mining, Civil Engineering, and Chemistry), Gr.Arch., Gr.Ed., J.D., M.D., Gr.P.H., D.D.S., Ph.C., LL.B., Ph.G.



## PROFESSORS.

COLLEGE OF LETTERS AND  
SCIENCE.

## Professors :

- A. L. Kroeber, *Anthropology*.  
 A. O. Leuschner, *Astronomy*.  
 R. T. Crawford, *Practical Astronomy*.  
 W. R. Bloor, *Biochemistry*.  
 W. A. Setchell, *Botany*.  
 W. L. Jepson, *Dendrology*.  
 C. B. Lipman, *Soil Chemistry and Bacteriology*.  
 H. Kower, *Drawing*.  
 C. M. Gayley, *English Language and Literature*.  
 W. M. Hart, *English Philology*.  
 C. W. Wells, *English Composition*.  
 B. P. Kurtz, *English*.  
 R. T. Holbrook, *French*.  
 A. J. Carnoy, *Romanic Philology*.  
 H. K. Schilling, *German Language and Literature*.  
 C. Paschall, *German*.  
 J. T. Allen, *Greek*.  
 I. M. Linforth, *Greek*.  
 H. E. Bolton, *American History*.  
 E. I. McCormac, *American History*.  
 L. J. Pactow, *Medieval History*.  
 W. A. Merrill, *Latin Language and Literature*.  
 E. K. Rand, *Classical Literature*.  
 L. J. Richardson, *Latin*.  
 E. T. Williams, *Oriental Languages and Literature*.  
 C. H. Rieber, *Logic*.  
 G. M. Stratton, *Psychology*.  
 G. P. Adams, *Philosophy*.  
 F. L. Kleeberger, *Physical Education*.  
 W. E. Magee, *Physical Culture*.  
 D. P. Barrows, *Political Science*.  
 E. Elliott, *International Law and Politics*.  
 T. H. Reed, *Municipal Government*.  
 M. C. Flaherty, *Forensics*.  
 G. R. Noyes, *Slavic Languages*.  
 R. Schevill, *Spanish*.  
 C. A. Kofoed, *Zoology*.  
 W. E. Ritter, "  
 S. J. Holmes, "  
 J. F. Daniel, "  
 E. P. Lewis, *Physics*.  
 E. E. Hall, "  
 R. S. Minor, "  
 M. W. Haskell, *Mathematics*.  
 D. N. Lehmer, "  
 F. Cajori, *History of Mathematics*.  
 C. A. Noble, *Mathematics*.  
 T. M. Putnam, "  
 R. T. Legge, *Hygiene*.  
 J. T. Nance, *Military Science and Tactics*.  
 R. S. Holway, *Physical Geography*.

## Professors—Continued :

- A. C. Lawson, *Mineralogy and Geology*.  
 G. D. Louderback, *Geology*.  
 J. C. Merriam, *Paleontology and Historical Geology*.  
 A. S. Eakle, *Mineralogy*.  
 F. P. Gay, *Pathology*.

## Associate Professors :

- E. W. Gifford (associate curator of the Anthropology Museum).  
 O. M. Washburn, *Classical Archeology*.  
 M. F. Patterson (Miss), *Household Art*.  
 T. F. Sanford, *English Literature*.  
 H. L. Bruce, *English Composition*.  
 L. M. Turner, *French*.  
 F. J. Teggart, *History*.  
 W. A. Morris, *English History*.  
 C. E. Chapman, *Latin-American and Californian History*.  
 A. F. Morgan (Miss), *Household Science*.  
 C. Price, *Latin*.  
 H. C. Nutting, *Latin*.  
 M. E. Deutsch, "  
 C. D. von Neumayer, *Public Speaking*.  
 A. W. Ryder, *Sanskrit*.  
 W. Popper, *Semitic Languages*.  
 S. G. Morley, *Spanish*.  
 J. Grinnell, *Zoology*.  
 F. B. Sumner, "  
 W. J. Raymond, *Physics*.  
 J. H. McDonald, *Mathematics*.  
 J. N. Force, *Epidemiology*.  
 G. Y. Rusk, *Pathology*.  
 I. C. Hall, *Bacteriology*.

## Assistant Professors :

- P. Radin, *Anthropology*.  
 S. Einarsen, *Practical Astronomy*.  
 C. L. A. Schmidt, *Biochemistry*.  
 N. L. Gardner, *Botany*.  
 T. H. Goodspeed, "  
 F. J. Smiley, *Economic Botany*.  
 C. C. Judson, *Antique Drawing*.  
 W. J. Wythe, *Mechanical Drawing*.  
 E. Neuhaus, *Decorative Design*.  
 P. W. Nahl, *Freehand Drawing and Art Anatomy*.  
 H. E. Cory, *English Composition*.  
 A. G. Brodeur, *English Philology*.  
 R. W. Gordon, *English Composition*.  
 S. J. Hume, *Dramatic Literature and Art*.  
 G. A. Smithson, *English*.  
 L. Bacon, *English*.  
 J. T. Clark, *French*.  
 P. B. Fay, "  
 A. Solomon, "  
 G. M. Calhoun, *Greek*.  
 H. I. Priestley, *Mexican History*.

**Associate Professors—Continued :**

- K. C. Leebrick, *History*.  
 J. J. Van Nostrand, *Ancient History*.  
 R. Okey (Miss), *Household Science*.  
 T. Petersson, *Latin*.  
 E. G. Stricklen, *Music*.  
 W. Brown, *Psychology*.  
 C. I. Lewis, *Philosophy*.  
 J. Loewenberg, *Philosophy*.  
 O. L. Bridgman (Miss), *Abnormal Psychology*.  
 R. Elliot (Miss), *Physical Education*.  
 S. R. Davis (Miss), *Physical Education*.  
 D. E. Watkins, *Public Speaking*.  
 N. B. Drury, *Forensics*.  
 C. Bransby, *Spanish*.  
 E. Buceta                   "  
 J. A. Long, *Embryology*.  
 F. P. Regan, *Zoology*.  
 L. T. Jones, *Physics*.  
 B. L. Clark, *Paleontology*.  
 B. A. Bernstein, *Mathematics*.  
 F. Irwin, *Mathematics*.  
 T. Buck                   "  
 R. L. Cunningham (Miss), *Hygiene and Physician for Women*.  
 L. K. Underhill, *Military Science and Tactics*.  
 N. E. Fiske, *Military Science and Tactics*.  
 O. C. Nichols, *Military Science and Tactics*.  
 C. D. O'Sullivan, *Military Science and Tactics*.  
 7 Lecturers, 68 Instructors, 33 Assistants, and 6 Teaching Fellows.

**COLLEGE OF COMMERCE.**

**Professors :**

- C. C. Plehn, *Finance*.  
 H. R. Hatfield, *Accounting*.  
 S. Daggett, *Railroad Economics*.  
 L. Hutchinson, *Commerce*.  
 J. B. Peixotto (Miss), *Social Economics*.  
 I. B. Cross, *Economics*.

**Associate Professors :**

- L. W. Stebbins, *Social Economy*.  
 S. Blum, *Economics*.

**Assistant Professors :**

- W. Brown, *Psychology*.  
 F. R. Macaulay, *Economics*.  
 4 Instructors, 4 Lecturers, 1 Assistant.

**COLLEGE OF AGRICULTURE.**

**Professors :**

- T. F. Hunt, *Agriculture*.  
 H. E. Van Norman, *Dairy Management*.  
 H. J. Webber, *Plant Breeding*.  
 M. E. Jaffa, *Nutrition*.  
 C. W. Woodworth, *Entomology*.  
 R. E. Smith, *Plant Pathology*.  
 J. E. Coit, *Citriculture*.

**Professors—Continued :**

- C. F. Shaw, *Soil Technology*.  
 J. W. Gregg, *Floriculture and Landscape Gardening*.  
 J. W. Gilmore, *Agronomy*.  
 F. T. Bioletti, *Viticulture and Enology*.  
 W. T. Clarke, *Agricultural Extension*.  
 J. S. Burd, *Agricultural Chemistry*.  
 C. B. Lipman, *Soil Chemistry and Bacteriology*.  
 C. M. Haring, *Veterinary Science*.  
 E. B. Babcock, *Genetics*.  
 G. H. True, *Animal Husbandry*.  
 J. T. Barrett, *Plant Pathology*.  
 F. W. Woll, *Animal Nutrition*.  
 W. Mulford, *Forestry*.  
 W. P. Kelley, *Agricultural Chemistry*.  
 D. T. Mason, *Forestry*.  
 H. J. Quayle, *Entomology*.  
 E. Mead, *Rural Institutions*.  
 H. S. Reed, *Plant Physiology*.  
 F. Adams, *Irrigation Investigations*.  
 C. L. Roadhouse, *Dairy Industry*.  
 L. D. Batchelor, *Orchard Management*.  
 H. S. Fawcett, *Plant Pathology*.  
 J. C. Whitten, *Pomology*.  
 W. L. Howard                   "  
 W. G. Hummel, *Agricultural Education*.  
 B. H. Crocheron, *Agricultural Extension*.  
 R. L. Adams, *Farm Management*.

**Associate Professors :**

- W. T. Horne, *Plant Pathology*.  
 E. J. Lea, *Nutrition*.  
 W. B. Herms, *Parasitology*.  
 J. E. Dougherty, *Poultry Husbandry*.  
 G. H. Hart, *Veterinary Science*.  
 P. B. Kennedy, *Agronomy*.  
 S. S. Rogers, *Olericulture*.  
 S. H. Beckett, *Irrigation Practice*.  
 F. L. Griffin, *Agricultural Education*.  
 J. I. Thompson, *Animal Husbandry*.  
 J. Traum, *Veterinary Science*.  
 J. W. Nelson, *Agricultural Extension*.  
 D. R. Hoagland, *Agricultural Chemistry*.  
 T. F. Hunt, *Agricultural Extension*.  
 C. W. Rubel                   "                   "  
 D. Bruce, *Forestry*.  
 F. M. Hayes, *Veterinary Science*.

**Assistant Professors :**

- B. A. Madson, *Agronomy*.  
 W. E. Packard, *Agricultural Extension*.  
 W. V. Cruess, *Zymology*.  
 G. R. Stewart, *Agricultural Chemistry*.  
 O. J. Kern, *Agricultural Education*.  
 R. S. Vaile, *Orchard Management*.  
 W. Metcalf, *Forestry*.  
 E. H. Smith (Miss), *Plant Pathology*.  
 E. C. Van Dyke, *Entomology*.  
 W. F. Gericke, *Soil Chemistry*.

**Assistant Professors—Continued :**

A. Smith, *Soil Technology*.  
 R. E. Clausen, *Genetics*.  
 E. O. Essig, *Entomology*.  
 V. C. Bryant, *Agricultural Extension*.  
 G. P. Gray, *Entomology*.  
 H. S. Baird, *Dairy Industry*.  
 G. W. Hendry, *Agronomy*.  
 A. H. Hendrickson, *Pomology*.  
 W. P. Tufts, *Pomology*.  
 P. L. Hibbard, *Agricultural Chemistry*.  
 W. H. Heileman, *Agricultural Extension*.  
 W. W. Mackie, *Agronomy*. [sion.  
 T. Tavernetti, *Farm Practice*.  
 W. W. Weir, *Soil Technology*.  
 F. J. Veihmeyer, *Irrigation Investigations*.  
 F. C. H. Flossfeder, *Viticulture*.  
 E. L. Overholser, *Pomology*.  
 S. B. Freeborn, *Entomology*.  
 C. F. Elwood, *Agricultural Extension*.  
 E. C. Voorhies, *Animal Husbandry*.  
 W. E. Lloyd, *Poultry Husbandry*.  
 L. J. Fletcher, *Agricultural Engineering*.  
 H. G. Eddy (Miss), *Agricultural Extension*.  
 S. H. Davisman, *Agricultural Education*.  
 E. Fritz, *Forestry*. [tion.  
 H. J. Baade, *Agricultural Extension*.  
 R. M. Hagen               "       "  
 B. J. Jones               "       "  
 M. A. W. Lee           "       "  
 G. E. Merrill           "       "  
 C. S. Myszka           "       "  
 L. B. Smith           "       "  
 R. N. Wilson           "       "  
 P. Talbot               "       "  
 H. A. Weinland       "       "  
 C. M. Conner           "       "  
 J. F. Wilson, *Animal Husbandry*.  
 A. R. C. Haas, *Plant Physiology*.  
 A. H. Hoffman, *Agricultural Engineering*.  
 23 Instructors, 2 Assistants.

**COLLEGE OF MECHANICS.**
**Professors :**

C. L. Cory, *Electrical Engineering*.  
 J. N. Le Conte, *Engineering Mechanics*.  
 B. F. Raber, *Mechanical Engineering*.  
 B. M. Woods, *Aerodynamics*.

**Associate Professor :**

H. B. Langille, *Machine Design and Mechanical Drawing*.

**Assistant Professors :**

L. N. Robinson, *Electrical Engineering*.  
 G. L. Greves               "       "  
 F. H. Cherry               "       "  
 A. Press                   "       "  
 A. B. Domonoske, *Mechanical Engineering*.

1 Lecturer, 1 Instructor, 2 Assistants.

**COLLEGE OF MINING.**
**Professor :**

F. H. Probert, *Mining*.

**Associate Professors :**

E. A. Hersam, *Metallurgy*.  
 W. S. Weeks, *Mining*.  
 L. C. Uren, *Mining*.

**Assistant Professor :**

W. S. Morley, *Metallurgy*.

**COLLEGE OF CIVIL ENGINEERING.**
**Professors :**

C. Derleth, *Civil Engineering*.  
 C. G. Hyde, *Sanitary Engineering*.  
 F. S. Foote, *Railroad Engineering*.  
 B. A. Etcheverry, *Irrigation Engineering*.

**Associate Professors :**

A. C. Alvarez, *Civil Engineering*.  
 S. T. Harding, *Irrigation*.

**Assistant Professors :**

A. J. Eddy, *Civil Engineering*.  
 W. F. Langelier, *Sanitary Engineering*.  
 C. T. Wiskocil, *Civil Engineering*.  
 1 Instructor.

**COLLEGE OF CHEMISTRY.**
**Professors :**

G. N. Lewis, *Physical Chemistry*.  
 E. O'Neill, *Inorganic Chemistry*.  
 W. C. Bray, *Chemistry*.  
 J. H. Hilderbrand, *Chemistry*.  
 W. C. Blasdale, *Chemistry*.

**Assistant Professors :**

M. Randall, *Chemistry*.  
 C. W. Porter           "  
 G. E. Gibson           "  
 G. E. K. Branch, *Chemistry*.  
 4 Instructors, 2 Research Associates,  
 2 Teaching Fellows, 14 Assistants.

**SCHOOL OF ARCHITECTURE.**
**Professor :**

J. G. Howard, *Architecture*.

**Associate Professor :**

W. C. Hays, *Architecture*.

**Assistant Professors :**

W. C. Perry, *Architecture*.  
 M. E. Cummings, *Modelling*.  
 1 Lecturer, 1 Instructor.

**SCHOOL OF JURISPRUDENCE.**
**Professors :**

W. C. Jones, *Jurisprudence*.  
 O. C. McMurray, *Law*.  
 C. H. Lindley, *Law of Mines and Water*.  
 A. M. Kidd, *Law*.  
 E. Elliott, *International Law and Politics*.

**Professors—Continued :**

M. C. Lynch, *Law*.  
A. T. Wright, "  
M. Radin, "  
G. H. Robinson, *Law*.  
9 Lecturers.

**SCHOOL OF EDUCATION.**

**Professors :**

A. F. Lange, *Theory and Practice of Education*.  
R. G. Boone, *Education*.  
C. E. Rugh, "  
W. W. Kemp, *School Administration*.

**Professors—Continued :**

I. W. Howerth, *Education*.  
R. J. Leonard, *Vocational Education*.

**Associate Professors :**

C. D. Mead, *Elementary Education*.  
J. V. Breitweiser, *Education*.  
C. L. Jacobs, *Industrial Education*.

**Assistant Professors :**

W. S. Thomas, *Education and Examiner of Schools*.  
R. S. French, *Education*.  
1 Instructor, 2 Teaching Fellows.

Post-Graduate Courses in all the College and Schools.

**Institutes and Museums :**

1. California Museum of Vertebrate Zoology. *Director* : J. Grinnell, Ph.D.
2. Lick Observatory, Mt. Hamilton. *Director*: W. W. Campbell.
3. D. O. Mills Observatory, Santiago, Chile,
4. California School of Fine Arts, San Francisco.
5. Hastings College of the Law, San Francisco.
6. Medical School (3rd, 4th, and 5th years), San Francisco.
7. College of Dentistry, San Francisco.
8. California College of Pharmacy, San Francisco.
9. Museums of Anthropology, Archeology, and Art, San Francisco.
10. Los Angeles Medical Department (graduate instruction only), Southern Branch of the University, Los Angeles.
11. The University Farm School and college instruction and research in Agronomy, Animal Husbandry, Dairy Industry, Farm Mechanics, Olericulture, Poultry Husbandry, Pomology, Soils and Veterinary Science, Davis.
12. The Graduate School of Tropical Agriculture, Riverside.
13. The Scripps Institution for Biological Research, La Jolla.
14. The Summer School of Surveying, Swanton.

**EXPERIMENT STATION**, U.S. Department of Agriculture.

*Director*.—H. J. Webber.

**BERNICE PANDHI BISHOP MUSEUM.** See HONOLULU.

**BETHLEHEM (Pennsylvania).**

**LEHIGH UNIVERSITY**, Bethlehem, Pa. (1866.)

*Terms*: Two per year.

*Students*: 1050.

**OFFICIALS.**

*President*.—Henry S. Drinker, E.M., LL.D.

*Vice-President*.—N. M. Emery, M.A., Litt.D.

*Secretary*.—C. L. Thornburg, C.E., Ph.D.

*Bursar*.—F. M. Ashbough.

*Registrar*.—Raymond Walters, B.A., M.A.

Degrees conferred.—M.A., M.S., B.A., B.S., C.E., M.E., E.M., Ch.E., B.S. in Chem., E.E. and N.E. (Naval Engineer).

**PROFESSORS.**

**ARTS AND SCIENCE.**

**Professors :**

C. L. Thornburg, *Mathematics and Astronomy*.  
W. C. Thayer, *English Language and Literature*.  
J. L. Stewart, *Economics and History*.

**Professors—Continued :**

R. W. Blake, *Latin Language and Literature*.  
C. J. Goodwin, *Greek Language and Literature*.  
A. E. Meaker, *Mathematics*.  
P. A. Lambert, *Mathematics*.



**Professors—Continued :**

P. M. Palmer, *German*.  
 B. L. Miller, *Geology*.  
 R. W. Hall, *Biology and Forestry*.  
 P. Hughes, *Philosophy and Education*.  
 C. S. Fox, *Romance Languages*.  
 H. R. Reiter, *Physical Education*.  
 H. M. Ullmann, *Chemistry*.  
 J. H. Ogburn, *Mathematics and Astronomy*.  
 B. MacNutt, *Physics*.  
 M. J. Luch, *Rhetoric and Oratory*.

**Associate Professor :**

V. S. Babasinian, *Organic Chemistry*.  
 R. L. Charles, *Physics*.

**Assistant Professors :**

J. E. Stocker, *Mathematics*.  
 J. H. Wily, *Physics*.  
 C. K. Meschter, *English*.  
 J. B. Reynolds, *Mathematics*.  
 R. P. More, *German*.  
 H. M. Fry, *Physics*.  
 R. Walters, *English*.  
 J. M. Toohy, *Romance Languages*.  
 E. Bowen, *Economics*.  
 P. B. Fraim, *Physics*.  
 M. S. Knebelmen, *Mathematics*.  
 J. H. Bickley, *Accounting*.  
 J. S. Long, *Inorganic Chemistry*.  
 L. R. Drown, *Education*.  
 H. G. Turner, *Geology*.  
 P. S. Cobb, *Organic Chemistry*.

**Post-Graduate Courses.**—M.A. and M.Sc.

**Library.**—Lchigh University Library, 145,000 volumes. *Director :* Prof. J. L. Stewart.

**BHAVNAGAR (India).**

**SAMALDAS COLLEGE**, Bhavnagar, Kathiawar, India. (1885.)

*Terms :* Two a year.

*Students :* 150.

*Budget :* College Budget: Annual Expenditure, Rs. 30,620.

**OFFICIAL.**

*Principal.*—K. J. Sanjana, M.A.

**Degrees conferred.**—As Bombay University.

**PROFESSORS.**

K. J. Sanjana, *Mathematics*.  
 J. J. Kania, *Sanskrit*.  
 J. S. Gambhir, *Persian*.  
 N. P. Dave, *Logic*.  
 V. M. Mehta, *English*.

T. K. Shahain, *Economics and English*.  
 H. B. Bhide, *History and Sanskrit*.  
 M. K. Kevalramain, *Mathematics*.  
 1 Lecturer, 1 Fellow.

**Library.**—The College Library contains about 5,000 books. *Librarian :* V. T. Bhatt.

**BIOLOGICAL LABORATORY, COLD SPRING HARBOUR.**

*See* COLD SPRING HARBOUR.

**BIOLOGICAL SOCIETY (America).** *See* WASHINGTON.

**BIRKBECK COLLEGE.** *See* LONDON.

**ENGINEERING.**

**Professors :**

W. Esty, *Electrical Engineering*.  
 J. W. Richards, *Metallurgy*.  
 H. Eckfeldt, *Mining Engineering*.  
 W. L. Wilson, *Railroad Engineering*.  
 P. B. de Schweinitz, *Machine Design*.  
 A. W. Klein, *Mechanical Engineering*.  
 R. J. Fogg, *Civil Engineering*.  
 F. V. Larkin, *Mechanical Engineering*.  
 J. W. Lang, *Military Science and Tactics*.

**Associate Professors :**

S. S. Scyfert, *Electrical Engineering*.  
 A. A. Diefenderfer, *Assaying and Quantitative Analysis*.  
 T. E. Butterfield, *Mechanical Engineering*.  
 L. B. Chapman, *Naval Architecture*.

**Assistant Professors :**

G. A. Roush, *Metallurgy*.  
 G. C. Beck, *Chemistry*.  
 S. A. Becker, *Civil Engineering*.  
 S. R. Schealer, *Electrical Engineering*.  
 R. L. Bartlett, *Mining Engineering*.  
 M. O. Fuller, *Civil Engineering*.  
 D. S. Chamberlin, *Industrial Chemistry*.  
 H. C. Payrow, *Civil Engineering*.  
 J. L. Beaver, *Electrical Engineering*.  
 H. D. Gruber, *Electrical Engineering*.  
 2 Lecturers, 23 Instructors, and 5 Assistant Instructors.

## BIRMINGHAM.

THE UNIVERSITY OF BIRMINGHAM, Edmund Street, Birmingham, and University Road, Edgbaston. (1900.)

*Terms* : Three a year.

*Students* : 1,800.

*Budget* (1918-1919):

Income from all sources (excluding special Endowment Funds) about £73,000.

Expenditure about £70,000.

Balance applied in reduction of Debt, about £3,000.

### OFFICIALS.

*Chancellor*.—The Rt. Hon. Lord Robert Cecil, K.C., M.P.

*Vice-Chancellor*.—Sir Gilbert Barling, Bt., C.B., C.B.E.

*Treasurer*.—Arthur Godlee.

*Principal*.—C. Grant Robertson, M.A., C.V.O.

*Vice-Principal*.—Sir William Ashley.

*Secretary*.—Geo. H. Morley.

*Registrar*.—John H. Costain.

### Degrees conferred :

#### *Degrees.*

- |  |                      |
|--|----------------------|
| <p>B.Sc. - Black silk or stuff edged with silver-grey watered silk.<br/> M.Sc. - Black silk lined with silver-grey watered silk.<br/> D.Sc. - Scarlet cloth lined with silver-grey watered silk.<br/> B.A. - Black silk or stuff edged with electric-blue watered silk.<br/> M.A. - Black silk lined with electric-blue watered silk.<br/> D.Litt. - Scarlet cloth lined with electric-blue watered silk.<br/> D.Phil. - Scarlet cloth lined with electric-blue watered silk.<br/> B.Mus. - Black silk or stuff edged with tang rine watered silk.<br/> M.B., Ch.B. - Black silk or stuff edged with cardinal watered silk.<br/> Ch.M. - Black silk lined with cardinal watered silk.<br/> M.D. - Scarlet cloth lined with cardinal watered silk.<br/> B.D.S. - Black silk or stuff edged with dark red (grenat) watered silk.<br/> M.D.S. - Black silk lined with dark red (grenat) watered silk.<br/> M.Mus. - Black silk lined with tang rine watered silk.<br/> B.Com. - Black silk or stuff edged with terra cotta watered silk.<br/> M.Com. - Black silk lined with terra-cotta watered silk.<br/> LL.D. - Scarlet cloth lined with bronze-green watered silk.</p> | <p><i>Hoods.</i></p> |
|--|----------------------|

### PROFESSORS.

#### SCIENCE.

##### **Professors :**

- G. N. Watson, *Mathematics*.  
S. W. J. Smith, *Physics*.  
G. T. Morgan, *Chemistry*.  
F. W. Gamble, *Zoology*.  
R. H. Yapp, *Botany*.  
W. S. Boulton, *Geology*. [ing.  
F. W. Burstall, *Mechanical Engineer*.  
F. C. Lea, *Civil Engineering*.  
W. Cramp, *Electrical Engineering*.  
(Vacant), *Brewing*.  
T. Turner, *Metallurgy*.  
Sir J. Cadman, *Mining*.

##### **Lecturers :**

- G. T. Preece, *Mathematics*.  
W. N. Bailey, "  
R. Colomb (Miss), "  
H. C. Kent, "  
G. A. Shakespear, *Physics*.  
G. Barlow, "

##### **Lecturers—Continued :**

- H. B. Keene, *Physics*.  
T. L. Ibbs, "  
J. E. Coates, *Chemistry*.  
F. Challenger, "  
W. Wardlaw, "  
S. R. Carter, "  
C. E. Wood, "  
S. D. Nicholas, "  
E. Jones (Miss), "  
L. M. Stewart, "  
A. E. Goddard, "  
S. A. Pearson, "  
H. G. Jackson, *Zoology*.  
E. Foulds (Miss), "  
E. A. N. Twigg (Miss), *Zoology*.  
C. L. Boulenger, *Agricultural Zoology*.  
J. Bayliss-Elliott (Mrs.), *Botany*.  
L. J. Wills, *Geology*.  
F. Raw, "  
R. C. Porter, *Mechanical Engineering*.

**Lecturers—Continued:**

S. J. Ellis, *Mechanical Engineering*.  
F. H. Boden " "  
J. Cook " "  
(Machine Design.)  
W. N. Thomas, *Civil Engineering*.  
R. E. Stradling " "  
F. K. Crowther " "  
H. W. Coultas " "  
W. Haywood, *Town Planning*.  
E. J. Kipps, *Electrical Engineering*.  
A. H. Barratt " "  
F. K. Crowther " "  
R. H. Hopkins, *Brewing*.  
A. J. Field, *Metallurgy*.  
D. H. Ingall " "  
H. Harris " "  
W. Hulse, *Mining*.  
C. H. Pitt " "  
E. C. Scott " "

**ARTS.**
**Professors :**

J. O. Thomson, *Latin*.  
E. de Selincourt (Dean), *English*.  
R. L. G. Ritchie, *French*.  
F. E. Sandbach, *German*.  
J. H. Muirhead, *Mental and Moral Philosophy*.  
C. R. Beazley, *History*.  
C. W. Valentine, *Education*.  
Conrad Gill " "  
M. Phillips (Miss) " "  
G. Bantock, *Music*. " "

**Lecturers :**

C. D. Chambers, *Latin*.  
Drummond (Miss), *Classics*.  
Rev. G. L. Marriott, *Greek*.  
M. Macmillan, *English*.  
G. Hislop " "  
F. P. Wilson " "  
P. Demey, *French*.  
J. J. Milne (Miss), *French*.  
S. Dupau (Mdlle.) " "  
D. Evans, *German*.  
L. M. Strachan, *German*.  
F. de Arteaga, *Spanish and Italian*.  
L. Segal, *Russian*.  
J. W. Harvey, *Mental and Moral Philosophy*.  
F. C. Hood, *History*.  
D. Sutcliffe (Miss), *History*.  
F. M. Ritchie (Miss), *Education*.

**MEDICINE.**
**Professors :**

P. Thompson, *Anatomy*.  
E. W. W. Carlier, *Physiology*.  
J. W. Russell, *Medicine*.  
O. J. Kauffmann " "  
C. A. Leedham-Green, *Surgery*.

**Professors—Continued :**

L. P. Gamgee, *Surgery*.  
J. S. Dunn, *Pathology*.  
J. Robertson, *Hygiene and Public Health*.  
J. D. Stanley, *Therapeutics*.  
T. Wilson, *Midwifery*.  
J. T. J. Morrison, *Forensic Medicine and Toxicology*.

**Assistant Professor :**

J. C. Brash, *Anatomy*.

**Lecturers :**

W. F. Haslam (Dean), *Anatomy*.  
B. T. Rose, *Anatomy*.  
O. Elgood-Turner (Mrs.), *Anatomy*.  
B. G. Goodwin, *Anatomy*.  
W. E. Bennett " "  
H. Walker (Miss), *Physiology*.  
L. Ball, *Medicine*.  
S. Barling, *Surgery*.  
D. M. Hunter, *Pathology*.  
C. J. Lewis, " "  
G. A. Auden, *Hygiene and Public Health*.  
L. G. Parsons, *Infant Hygiene and Diseases peculiar to Children*.  
J. C. Kneale, *Materia Medica*.  
F. R. Greenwood " "  
W. A. Potts, *Therapeutics*.  
J. T. Hewetson, *Midwifery*.  
C. E. Purslow " "  
C. Walker, *Forensic Medicine and Toxicology*.  
P. T. Hughes, *Mental Diseases*.  
G. Heaton, *Operative Surgery*.  
J. J. Evans, *Ophthalmology*.  
J. T. Hewetson, *Curator of Pathological Museum*.  
A. W. Nuthall, *Curator of Pathological Museum*.  
W. T. Madin, *Dental Surgery*.  
H. F. Humphreys, *Dental Anatomy*.  
A. E. Donagan, *Dental Mechanics*.  
A. W. Wellings, *Dental Histology and Pathology*.  
L. Ball, *Medicine for Dental Students*.  
A. Lucas, *Surgery* " " "  
G. F. Cale-Matthews, *Orthodontics*.

**COMMERCE.**
**Professors :**

Sir W. Ashley, *Commerce*.  
C. E. Martineau, *Accounting*.  
F. Tillyard, *Commercial Law*.

**Assistant Professor :**

J. G. Smith, *Commerce*.

**Lecturer :**

T. S. Ashton, *Organizing Tutor in Economics and Political Science*.  
P. Barrett Whale, *Economics*.

**Post-Graduate Courses.**—In all faculties Courses are provided in preparation for the Higher Degrees of Master and Doctor.



**Institutes and Museums.**—There are Museums in Zoology, Botany, Geology, Anatomy, and Pathology.

Associated with the University is an Institute of Helminthology.

**Libraries.**—An annual grant of about £800 is expended on books and binding in the Libraries in Edmund Street and at Edgbaston. *Librarian*: (with Assistants) W. H. Cope.

### AFFILIATED INSTITUTIONS.

The Birmingham and Midland Institute, Birmingham.

With the Faculty of Arts is closely associated Lichfield and Handsworth Theological Colleges.

### BLACKSBURG (Virginia).

#### EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—A. W. Drinkard, jr.

### BLOEMFONTEIN (O.F.S.).

**GREY UNIVERSITY COLLEGE.** No particulars received.

### BLOOMINGTON (Indiana).

**INDIANA UNIVERSITY,** Indiana. (1820.)

*Terms*: Two semesters and Summer Session.

*Students*: 3,210.

#### OFFICIALS.

*President.*—William L. Bryan, Ph.D., LL.D.

*Dean of the College of Liberal Arts.*—H. A. Hoffman, A.M.

*Dean of the School of Law.*—E. G. Hogate, A.M., LL.D.

*Dean of the Graduate School.*—C. H. Eigenmann, Ph.D.

*Dean of the School of Medicine (Indianapolis).*—C. P. Emerson, A.B., M.D.

*Dean of the School of Education.*—H. L. Smith, Ph.D.

*Dean of Women.*—Ruby E. C. Mason, A.M.

*Registrar and Secretary of the University.*—J. W. Cravens, A.B.

*Bursar.*—U. Howe Smith, A.B.

**Degrees conferred.**—A.B., B.S., LL.B., A.M., M.D., Ph.D.

#### PROFESSORS.

##### COLLEGE OF LIBERAL ARTS.

###### Professors:

Rev. A. Atwater, *Latin*.

H. A. Hoffman, *Greek*.

J. A. Woodburn, *American History*.

C. H. Eigenmann, *Zoology*.

R. E. Lyons, *Chemistry*.

A. L. Foley, *Physics*.

C. M. Mottier, *Botany*. [*Sociology*.

U. G. Weatherly, *Economics and*

B. D. Myers, *Anatomy*.

S. B. Harding, *European History*.

A. S. Hershey, *Political Science and International Law*.

B. J. Vos, *German*.

W. A. Rawles, *Political Economy*.

C. W. F. Osthaus, *German*.

S. C. Davisson, *Mathematics*.

D. A. Rothrock, *Mathematics*.

W. J. Moenkhaus, *Physiology*.

L. S. Davis, *Chemistry*.

A. M. Brooks, *Fine Arts*.

W. D. Howe, *English*.

W. F. Book, *Educational Psychology*.

C. J. Sembower, *English*.

###### Professors—Continued:

E. R. Cumings, *Geology*.

S. E. Stout, *Latin*.

W. B. Elkin, *Philosophy*.

J. W. Piercy, *Journalism*.

E. O. Stiehm, *Physical Education*.

W. E. Jenkins, *General Literature*.

J. A. Williams, *Psychology*. [*Tactics*.

A. T. Dalton, *Military Science and*

P. L. Haworth, *History*.

J. Maxwell (Miss), *Physical Education*.

###### Associate Professors:

G. D. Morris, *French*.

F. W. Tilden, *Greek*.

G. H. Stempel, *Comparative Philology*.

C. A. Mosemiller, *Romance Languages*.

R. R. Ramsey, *Physics*.

O. W. Brown, *Chemistry*.

F. M. Andrews, *Botany*.

L. G. Berry, *Latin*.

H. T. Stephenson, *English*.

W. A. Cogshall, *Astronomy*.

U. S. Hanna, *Mathematics*.

J. W. Beede, *Geology*.

C. D. Campbell, *Music*.

### Assistant Professors :

F. G. Bates, *Political Science*.  
F. C. Mathers, *Chemistry*.  
C. E. May, *Chemistry*.  
F. Payne, *Zoology*.  
M. T. Wellman (Miss), *Home Economics*.  
E. G. Henry (Miss), *Social Service* (at Indianapolis).  
E. G. Frazier, *Public Speaking*.  
J. B. Cutcher, *Physics*.  
J. Hill, *Spanish*.  
G. F. Reynolds, *English*.  
P. E. Barra, *German*.  
W. N. Logan, *Geology*.  
G. G. Greever, *English*.  
J. A. Badertsher, *Anatomy*.  
J. B. Phillips, *Economics and Sociology*.  
J. M. Van Hook, *Botany*.  
E. H. Biermann, *German*.  
J. Conklin (Miss), *French*.  
W. Scott, *Zoology*.  
R. E. Burke, *Fine Arts*.  
E. Sage (Miss), *Home Economics*.  
A. L. Kohlmeier, *History*.  
K. P. Williams, *Mathematics*.  
J. G. McDonald, *History*.  
J. A. Wright, *Journalism*.  
A. D. Goss (Mrs.), *German*.  
J. A. Hess, *German*.  
F. C. Senour, *English*.  
C. B. Hennel (Miss), *Mathematics*.  
N. Treat (Miss), *Home Economics*.  
C. McK. Evans, *Physical Education*.

**Post-Graduate Courses.**—The Graduate School at Indiana University was organised in 1904. Courses are given in Anatomy, Astronomy, Botany, Chemistry, Comparative Philology, Economics and Sociology, English, Fine Arts, Geology, German, Greek, History, Home Economics, Philosophy, Journalism, Latin, Mathematics, Physics, Physiology, Political Science, Romance Languages, Social Service, and Zoology.

**Libraries.**—*Librarian* : W. E. Jenkins, A.M. *Assistant Librarian* : Miss L. Maxwell, A.B. *Reference Librarian* : Miss M. Dunham.

The library of Indiana University at present contains 121,718 volumes, and is growing at the rate of about 6,000 volumes a year.

In addition to the central library, where the general literary and historical collections are housed, there are nine departmental collections of varying sizes, kept in the different University buildings.

The Library of the School of Law contains about 12,500 volumes.

### Assistant Professors—Continued :

L. Roark, *Geology*.  
E. M. Linton, *Political Science*.  
R. E. C. Mason (Miss), (Lecturer), *English*.  
U. H. Smith (Lecturer), *Accounting and Business Practice*.  
51 Instructors.

### SCHOOL OF EDUCATION.

#### Professors :

H. L. Smith, *School Administration*.  
W. W. Black, *Elementary Education*.  
W. F. Book, *Educational Psychology*.  
E. A. Lee, *Vocational Education*.

#### Associate Professors :

H. G. Childs, *Education*.  
M. T. Weman (Miss), *Home Economics*.  
D. J. MacDonald, *Vocational Education*.  
8 Instructors and 5 Critics Teachers.

### THE SCHOOL OF LAW.

#### Professors :

E. G. Hogate, *Law*.  
C. McG. Hepburn, *Law*.  
J. J. M. La Follette, *Law*.  
M. C. Campbell, *Law*.  
W. A. Seavey, *Law*.  
J. L. Parks, *Law*.  
S. Rowley, *Law*.

## BOMBAY (India).

**UNIVERSITY OF BOMBAY**, Mayo Road, Fort, Bombay. (1857.)

*Terms* : Two a year.

*Students* : 7,831.

### OFFICIALS.

*Chancellor*.—The Hon. Sir G. A. Lloyd, G.C.I.E., D.S.O.  
*Vice-Chancellor*.—Sir C. H. Setalvad, Kt., B.A., LL.B.  
*Dean in Arts*.—Sir N. G. Chandavarkar, Kt., B.A., LL.B.  
*Dean in Law*.—The Hon. Mr. Justice A. M. Kajiji, B.A., LL.B.  
*Dean in Medicine*.—Dr. S. K. Nariman, M.D.  
*Dean in Science*.—Dr. N. A. F. Moos, D.Sc., L.C.E., F.R.S.E.  
*Registrar*.—Khan B. F. M. Dastur, M.A.

## Degrees conferred :

Degrees.	Hoods.
B.A. - - -	Black silk, bound with garter blue silk, 1 inch wide.
M.A. - - -	Garter blue silk, lined with same.
B.Com. - - -	Black silk, bound with violet silk, 1 inch wide.
B.Sc. - - -	Black silk, bound with yellow silk, 1 inch wide.
M.Sc. - - -	Black silk, lined with yellow silk.
B.Ag. - - -	Black silk, bound with green silk, 1 inch wide.
M.Ag. - - -	Black silk, lined with green silk.
B.E. - - -	Black silk, bound with brown silk, 1 inch wide.
M.C.E. - - -	Brown silk, lined garter blue.
LL.B. - - -	Black silk, with scarlet cloth band inside, 2 inches wide.
LL.M. - - -	Scarlet cloth, lined with scarlet silk.
L.M. and S. - -	Black silk, bound with crimson silk, 1 inch wide.
M.B.B.S. - - -	Black silk, lined with crimson silk.
B.Hy. - - -	Black silk, lined with white silk, 1 inch wide.
D.Hy. - - -	Crimson silk, lined with white silk.
M.D. and M.S. -	Crimson silk, lined garter blue.
Hon. LL.D.-	Scarlet silk, lined with white silk.

PROFESSOR.—Patrick Geddes, *Sociology*.

## UNIVERSITY LECTURERS.

P. Anstey, <i>The Sociological Basis of Economics</i> .	L. Peltier, <i>Sixteenth-Century French Literature</i> .
S. A. Surfraz, <i>Hadiqa of Sanai</i> .	

## INTER-COLLEGIATE LECTURERS.

## ELPHINSTONE COLLEGE.

A. C. L. Wilkinson, <i>Elliptic Functions</i> .
A. C. Farran, <i>Politics</i> .
S. A. Surfraz, <i>Rouzatus Safa, Life of Mohammed</i> .
J. C. P. D'Andrade, <i>Spinoza, Leibnitz, Hegel, and Ethics</i> .

## WILSON COLLEGE.

E. A. Parker, <i>Chaucer, Langland and Middle English</i> .
Rev. Dr. R. Scott, <i>Shakespeare and Milton</i> .
H. D. Velankar, <i>Rigveda and Dharmastra</i> .
P. V. Kulkarni, <i>Yaska's Nirukta</i> .
Rev. J. McKenzie, <i>History of Ethics</i> .
Rev. J. R. Cuthbert, <i>History of Greek Philosophy</i> .
P. A. Wadia, <i>History of Greek Philosophy from Thales to Plato</i> .

Library.—The Bombay University Library. Librarian : S. N. Pherwani, M.A.

## ST. XAVIER'S COLLEGE.

Rev. R. Zimmermann, <i>Rigveda, History of Vedic Literature, Paleography and Comparative Philology</i> .
N. K. Bhagvat, <i>Pali</i> .
L. G. Khare, <i>French Language and Literature</i> .
M. W. Dawson, <i>Latin (Cicero and Lucretius)</i> .
F. B. Vachha, <i>Psychology</i> .

## SYDENHAM COLLEGE.

H. L. Kaji, <i>English Economic History</i> .
A. R. Burnett-Hurst, <i>Indian Economic History</i> .
V. G. Dalvi, <i>Indian Economics</i> .
P. Anstey, <i>History of Economic Doctrines</i> .
M. L. Taunan, <i>Currency, Banking, and Public Finance</i> .

## AFFILIATED INSTITUTIONS.

Elphinstone College, Bombay.  
 Deccan College, Poona.  
 Wilson College, Bombay.  
 St. Xavier's College, Bombay.  
 Gujarat College and Madhavlal Ranchhodlal Science Institute.  
 Rajaram College, Kolhapur.  
 Baroda College.  
 Fergusson College, Poona.  
 Samaldas College, Bhavnagar.  
 Dayaram Jethmal Sind College.

Bahuddin College, Junagadh.  
 New Poona College.  
 Karnatak College, Dharwar.  
 Sarvajani College, Surat.  
 Willingdon College, Sangli.  
 Sydenham College of Commerce and Economics, Bombay.  
 Poona Agricultural College.  
 College of Engineering, Poona.  
 Government Law School, Bombay.  
 Grant Medical College, Bombay.

## BOMBAY AND ALIBAG OBSERVATORIES, Bombay, India. (1846.)

*Director.*—(Vacant.)

At the Colaba Observatory, Bombay, continuous meteorological and seismological records are maintained. Chronometers belonging to the Admiralty and Royal Indian Marine are stored and rated. The Observatory is also responsible for the Time Ball Service at Bombay Harbour.

A magnetic Observatory is situated at Alibag, 20 miles south of Bombay, where absolute measurements and continuous records are made of the magnetic elements. The magnetic work was transferred from Colaba to Alibag in 1906 before the introduction of electric traction into Bombay.

Meteorological and magnetic readings date from 1846 and seismological from 1898. Results are discussed and published in five-yearly volumes.

## BOMBAY BACTERIOLOGICAL LABORATORY, Parel, Bombay.

*Director.*—

Lieut.-Col. W. G. Liston, J.P., C.I.E., M.D., D.P.H., I.M.S.

(Acting) Major J. C. G. Kunhardt.

*Assistants to the Director.*—

Major T. H. Gloster; Major W. D. H. Stevenson.

(Officiating) D. A. Turkhud; S. N. Gore.

## BOSTON (Massachusetts).

### BOSTON UNIVERSITY, Boston, Mass. (1869.)

*Terms* : Two a year and a Summer Session. *Students* : 5,666.

*Budget* : Proposed Budget, \$713,271 for 1919-1920.

### OFFICIALS.

*President.*—L. H. Murlin, LL.D.

*Treasurer.*—Silas Peirce.

*Dean of the College of Liberal Arts.*—W. M. Warren, Ph.D.

*Director of the Summer Session.*—A. H. Rice, Ph.D.

*Dean of the College of Business Administration.*—E. W. Lord, A.M.

*Dean of the School of Theology.*—L. J. Birney, S.T.D.

*Director of the Department of Religious Education.*—W. S. Athearn.

*Dean of the School of Law.*—H. Albers, A.M., LL.B.

*Dean of the School of Medicine.*—J. P. Sutherland, M.D.

*Director of the College of Secretarial Science.*—T. L. Davis.

*School of Education.*—A. H. Wilde.

*Department of Religious Education and Social Service.*—

Degrees conferred.—A.B., S.B., B.B.A., B.B.A. cum laude, M.B.A., B.E., M.R.E., S.T.B., LL.B., LL.B. cum laude, LL.B. magna cum laude, LL.M., M.B., M.D., A.M., Ph.D., B.B.S.

### PROFESSORS.

#### COLLEGE OF LIBERAL ARTS.

##### Professors :

W. C. Aurelio, *Greek, German*.  
A. K. Black (Miss), *Elocution*.  
E. C. Black, *English Literature*.  
E. H. Brightman, *Philosophy*.  
R. E. Bruce, *Mathematics*.  
D. Cameron, *Latin*.  
F. A. Cleveland, *U.S. Citizenship*.  
J. B. Coit, *Astronomy*.  
J. Geddes, *Romance Languages*.  
N. A. Kent, *Physics*.  
J. P. Marshall, *Music*.  
L. C. Nowell, *Chemistry*.  
M. L. Perrin, *German*.

##### Professors—Continued :

A. H. Rice, *Latin*.  
D. L. Sharp, *English*.  
J. R. Taylor, *Greek*.  
W. M. Warren, *Philosophy*.  
A. W. Weyssse, *Biology*.  
A. H. Wilde, *Education*.  
E. C. Wilm, *Philosophy*.

##### Assistant Professors :

E. A. Aldrich, *History*.  
W. O. Ault, *History*.  
C. P. Huse, *Economics*.  
A. M. Waxman, *Romance Languages*.  
19 Instructors, Lecturers, and Assistants.



# COLLEGE OF BUSINESS ADMINISTRATION.

## Professors :

H. B. Center, *Journalism*.  
Roy Davis, *English*.  
C. P. Huse, *Economics*.  
H. L. Perrin, *Law*.  
C. F. Rittenhouse, *Accounting*.  
F. L. Simpson, *Law*.  
H. R. Tosdal, *Economics and Finance*.  
H. Whitehead, *Salesmanship*.

## Associate Professors :

C. E. Bellatty, *Advertising*.  
W. J. McCarty, *Accounting*.

## Assistant Professors :

S. Cornejo, *Spanish*.  
D. Crawford, *English*.  
W. J. Goggin, *Accounting*.  
R. H. Loomis, *Economics*.  
L. D. O'Neil, *Spanish*.  
A. L. Percy, *Accounting*.  
J. C. Scammell, *English*.  
33 Instructors, 2 Lecturers, and 6 Assistants.

# SCHOOL OF LAW.

## Professors :

H. Albers, *Law*.  
M. M. Bigelow, *Law*.  
H. M. Bowman, "  
J. P. Crosby, "  
F. L. Simpson, "  
C. M. Wood, "  
18 Lecturers, 6 Instructors.

# SCHOOL OF THEOLOGY.

## Professors :

J. M. Barker, *Sociology*.  
M. D. Buell, *New Testament*.  
G. C. Cell, *Church History*.  
A. Gillies, *Homiletics*.  
E. J. Helms, *Evangelism*.  
A. C. Knudson, *Old Testament*.  
W. J. Lowstuter, *New Testament*.  
C. E. Neil, *Public Speaking*.  
H. C. Sheldon, *Systematics*.  
D. D. Vaughn, *Social Service*.

## Assistant Professors :

L. J. Birney, *Practical Theology*.  
H. R. Harper, *Old Testament*.  
1 Instructor, 3 Lecturers, 1 Assistant.

# SCHOOL OF MEDICINE.

## Professors :

E. E. Allen, *Anatomy*.  
J. L. Ames, *Theory and Practice of Medicine*.  
F. P. Batchelor, *Physiology*.  
H. P. Bellows, *Otology*.  
J. E. Briggs, *Surgery*.  
R. G. Browne, *Diseases of the Chest*.  
G. H. Earl, *Obstetrics*.

## Professors—Continued :

A. G. Howard, *Orthopedic Surgery*.  
W. T. Lee, *Diseases of the Skin*.  
E. N. Libby, *Practice of Medicine*.  
E. M. Jordan, *Diseases of the Nervous System*.  
J. H. Moore, *Diseases of Children*.  
N. E. Paine, *Mental Diseases*.  
F. W. Patch, *Materia Medica*.  
G. B. Rice, *Diseases of the Nose and Throat*.  
A. W. Rowe, *Chemistry*.  
G. R. Southwick, *Gynecology*.  
J. P. Sutherland, *Theory and Practice*.  
W. H. Watters, *Pathology*.  
D. W. Wells, *Ophthalmology*.  
W. F. Wesselhoeft, *Clinical Surgery*.  
A. W. Weysee, *Experimental Physiology*.  
F. G. Wheatley, *Pharmacology*.  
D. G. Wilcox, *Clinical Gynecology*.  
N. W. Wood, *Clinical Medicine*.

## Associate Professors :

E. S. Calderwood, *Anatomy*.  
F. W. Colburn, *Otology*.  
S. C. Fuller, *Neuropathology*.  
F. W. Halsey, *Diseases of the Rectum*.  
F. E. Haskins, *Pharmacology*.  
A. W. Horr, *Ophthalmology*.  
N. H. Houghton, *Diseases of the Nose and Throat*.  
C. T. Howard, *Clinical Surgery*.  
H. M. Fellock, *Hospital Adm. and Organiz.*  
E. P. Ruggles, *Obstetrics*.  
H. O. Spalding, *Mental Diseases*.

## Assistant Professors :

T. J. O'Brien, *Clinical Medicine*.  
C. Phipps, *Clinical Medicine*.  
15 Instructors, 25 Lecturers.

# SCHOOL OF EDUCATION.

## Professor :

A. H. Wilde, *Education*.

## Assistant Professor :

E. M. Chamberlain, *Education*.  
6 Instructors, 3 Lecturers.

# COLLEGE OF SECRETARIAL SCIENCE.

## Professors :

C. P. Huse, *Economics*.  
R. E. Bruce, *Mathematics*.  
Roy Davis, *Business English*.

## Associate Professor :

W. J. McCarty, *Accounting*.

## Assistant Professors :

W. O. Ault, *History*.  
S. Cornejo, *Spanish*.  
10 Instructors, 4 Lecturers, 2 Assistants.

# DEPARTMENT OF RELIGIOUS EDUCATION AND SOCIAL SERVICE.

## Professors :

- W. S. Athearn, *Religious Education*.  
A. E. Bennett, *Educational Psychology*.  
A. Munkros, *Elementary Education*.  
A. M. Robertson (Miss), *Vocational Guidance and Women's Work*.  
C. E. Carroll, *Social Science*.  
H. A. Smith, *Music*.  
F. Strickland, *History and Psychology of Religion*.  
O. W. Warmingham, *Bible*.

## Special Professors :

- J. L. Alexander, *Adolescent Education*.  
T. N. Carver, *Rural Sociology*.  
E. M. Chamberlain, *Psychology, Agriculture, and Rural Education*.

## Assistant Professors :

- F. W. Clelland, *English Bible*.  
C. W. Coburn, *Rural Leadership and Psychology*. [Work]  
M. W. Eggleston (Mrs.), *Young People's*  
H. A. Reid, *Principal* (Evening School).  
5 Instructors, 8 Assistants.

## SUMMER SESSION.

## Professors :

- E. C. Black, *English*.  
H. B. Center, *Navigation, Business*  
S. Cornejo, *Spanish*. [English]  
C. G. Hamilton, *Piano*.  
N. A. Kent, *Physics*.  
J. P. Marshall, *Music*.  
L. C. Newell, *Chemistry*.  
A. H. Rice, *Latin*.  
C. F. Rittenhouse, *Accounting*.  
J. R. Taylor, *Drama*.  
A. W. Weyse, *Biology*.  
E. C. Wilm, *Philosophy*.

Post-Graduate Courses leading to Ph.D., and A.M. degrees.

## Libraries.—

- Library of College of Liberal Arts, 18,000 volumes.  
Library of College of Business Administration, 4,300 volumes.  
Library of School of Law, 16,000 volumes.  
Library of School of Medicine, 6,000 volumes.  
Library of School of Theology, 15,000 volumes.  
Library of School of Education, 150 volumes.  
Library of Religious Education and Social Services, 2,500 volumes.

Librarians : Miss M. Barnum, R. Power.

## Learned Societies.—

Phi Beta Kappa, founded at the College of William and Mary, in 1776, is an honorary society in which membership is conferred for high scholarship. Massachusetts Epsilon Chapter at Boston University received its charter in 1898. Each year a few Seniors maintaining high rank throughout their Course are elected to membership. College of Liberal Arts.

The Boston University Chapter of the honour society, Delta Mu Delta, elects to membership each year from the graduates of highest scholastic standing, not more than one-fifth of the graduating class; and, in addition, may elect not more than three members of the Junior class, selecting the members whose standing is the highest. College of Business Administration.

## Associate Professors :

Roy Davis, *English*.

## Assistant Professors :

- E. A. Aldrich, *History*.  
C. P. Ruse, *Economics*.  
S. M. Waxman, *French, Spanish*.  
7 Instructors, 2 Assistants, 9 Lecturers.

## GRADUATE SCHOOL.

## Professors :

- E. E. Allen, *Anatomy*.  
W. S. Athearn, *Religious Education*.  
F. P. Batchelder, *Physiology*.  
M. M. Bigelow, *Law*.  
E. C. Black, *English Literature*.  
H. M. Bowman, *Law*.  
E. S. Brightman, *Philosophy*.  
R. E. Bruce, *Mathematics*.  
M. D. Buell, *New Testament Greek*.  
G. C. Cell, *Historical Theology*.  
J. B. Coit, *Astronomy*.  
J. Geddes, *Romance Languages*.  
N. A. Kent, *Physics*.  
A. C. Knudson, *Old Testament Exegesis*.  
W. J. Lowstuter, *New Testament Literature*.  
J. P. Marshall, *History and Theory of*  
L. C. Newell, *Chemistry*. [Music]  
M. L. Perrin, *Germanic Language and*  
A. H. Rice, *Latin*. [Sanskrit]  
A. W. Rowe, *Chemistry*.  
D. L. Sharp, *English*.  
H. C. Sheldon, *Systematic Theology*.  
F. L. Simpson, *Law*.  
J. R. Taylor, *Greek*.  
W. F. Warren, *Religious*.  
W. H. Watters, *Pathology*.  
A. H. Wilde, *Education and School Administrator*.  
E. C. Wilm, *Philosophy*.



## AFFILIATED INSTITUTIONS.

Morgan Memorial, Boston.

Deaconess Training School, Brookline, Mass.

**BUSSEY INSTITUTION**, Forest Mills, Boston, Mass. (1871.)

The Graduate School of Applied Biology of Harvard University.

*Terms:* Open throughout the year.

## OFFICIALS.

*President.*—Abbott Lawrence Lowell, LL.B., LL.D., Ph.D.*Dean.*—William Morton Wheeler, Ph.D., S.D.*Secretary.*—Irving Widner Bailey, A.B., M.F.**Degrees conferred.**—S.D., S.M., M.F.

## PROFESSORS.

## Professors :

W. M. Wheeler, *Economic Entomology*.G. H. Parker, *Zoology*.D. E. Castle, *Zoology*.W. J. V. Osterhout, *Botany*.E. E. Tyzzer, *Comparative Pathology*.E. M. East, *Plant Morphology*.

## Assistant Professors :

J. G. Jack, *Dendrology*.O. Ames, *Botany*.R. Thornton Fisher, *Forestry*.I. W. Bailey, *Forestry*.C. T. Brues, *Economic Entomology*.**MASSACHUSETTS INSTITUTE OF TECHNOLOGY.** No particulars received.**THE CARNEGIE INSTITUTION NUTRITION LABORATORY**, Boston, Mass. (1907.)*Director.*—Francis G. Benedict.*Investigative staff* of 24 members.

Studies of the metabolism of normal individuals and of diabetics, and many other researches connected with metabolism.

**BOTANICAL SURVEY OF INDIA.** See SIMLA.**BOULDER (Colorado).****UNIVERSITY OF COLORADO.** No particulars received.**BOZEMAN (Montana).****EXPERIMENT STATION**, U.S. Department of Agriculture.*Director.*—F. B. Tinfield.**BRANDON (Manitoba).****BRANDON COLLEGE**, Brandon, Manitoba, Canada. (1899.)*Terms:* Three per year—12 weeks each. Arts and Theological Departments, two terms.*Students:* 321.

## OFFICIALS.

*President.*—Howard P. Whidden, B.A., D.D., LL.D.*Dean.*—Harris L. MacNeill, B.A., Ph.D.*Registrar.*—Samuel J. McKee, B.A., LL.D.*Bursar.*—B. T. Morse.**Degrees conferred.**—B.A. and M.A.

Hoods as McMaster University, Toronto.

## PROFESSORS.

**FACULTY OF ARTS AND SCIENCE.**S. J. McKee, *Philosophy*.O. A. C. Wilkins (Mrs.), *English and*  
C. W. New, *History*. [German.]J. R. C. Evans, *Science*.P. Louys, *French*.**Faculty of Arts and Science—Continued :**C. H. Lager, *Swedish and Hebrew*.T. R. Wilkins, *Mathematics and*  
*Physics*.J. Fraser (Miss), *English*.J. Turnbull (Miss), *French*.

**FACULTY OF THEOLOGY.**

- H. P. Whidden, *Christian Theology and Ethics*.  
H. L. MacNeill, *New Testament and Classics*.  
J. A. Gordon, *Homiletics and Pastoral Administration*.  
G. T. Webb, *Religious Education*.

**ACADEMIC AND BUSINESS.**

- W. A. Mackintosh, *Political Economy*.  
B. T. Morse, *Business*.

**Academic and Business—Continued :**

- A. E. Wright (Mrs.), *Academic and Business*. [Shorthand]  
J. Taylor (Miss), *Stenography and R. L. Allen, Academic*.

**MUSIC.**

- W. L. Wright, *Piano and Theory*.  
G. M. Newbury (Miss), *Expression and Physical Culture*.  
M. Wilson (Miss), *Vocal*.  
H. Venn (Miss), *Piano*.  
E. Gerrard (Miss), *Piano*.

**BRISBANE (Queensland).**

**UNIVERSITY OF QUEENSLAND**, Brisbane, Queensland. (1909.)

*Terms :* Three per year.

**OFFICIALS.**

*Chancellor*.—The Hon. Sir Pope Alexander Cooper, K.C.M.G., M.A.  
*Vice-Chancellor*.—The Hon. A. J. Thynne, M.L.C.  
*Registrar and Librarian*.—F. W. S. Cumbric-Stewart, B.A., B.C.L.

**Degrees conferred :**

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Pure white silk edged with silk cord.
M.A. - -	Dark maroon silk.
B.Sc. - -	Blue silk edged with yellow silk cord.
M.Sc. - -	Black silk lined with yellow silk.
D.Sc. - -	
B.E. - -	Light maroon silk edged with black silk cord.
M.E. - -	Yellow silk edged with black silk cord.
LL.B. - -	Light blue silk edged with black silk cord.
LL.D. - -	
M.B. - -	Black silk edged with red silk cord.
B.S. - -	Black silk edged with red silk cord.
M.D. - -	

**PROFESSORS.**
**Professors :**

- B. D. Steele, *Chemistry*.  
H. G. Denham, *Chemistry*.  
J. L. Michie, *Classics*.  
A. J. Gibson, *Engineering*.  
R. W. H. Hawken, *Engineering*.  
H. J. Priestley, *Mathematics and Physics*.

**Lecturers :**

- L. S. Bagster, *Applied Chemistry*.  
T. H. Johnston, *Biology*.  
C. D. Gillies, *Biology*.  
H. G. Denham, *Chemistry*.  
T. C. H. Jones, *Chemistry*.  
R. W. H. Hawken, *Civil Engineering*.  
R. J. Cholmeley, *Classics*.  
S. Castlehow, *Classics*.  
T. C. Witherby, *Economics*.  
P. L. Weston, *Electrical Engineering*.  
J. J. Stable, *English, French, and German*.  
H. F. Parnell, *English, French, and German*.

**Lecturers—Continued :**

- A. K. Gray, *English, French, and German*.  
H. M. McCulloch, *English, French, and German*.  
C. Schindler, *French* (evening).  
H. Alcock, *History and Economics*.  
A. C. V. Melbourne, *History and Industrial History*.  
H. C. Richards, *Geology and Mineralogy*.  
A. B. Walkom, *Geology and Mineralogy*.  
G. E. Mayo, *Logic, Ethics, and Psychology*.  
P. A. Seymour, *Logic, Psychology, and Education*.  
H. J. Priest, *Mathematics*.  
T. Parnell, *Physics*.  
S. G. Lusby, *Physics*.  
K. F. Swanwick, *Mathematics*.  
J. P. McCarthy, *Mathematics*.  
6 Hon. Lecturers, 6 Demonstrators.

**QUEENSLAND MUSEUM**, Brisbane, Queensland. (1855.)*Director*.—Heber A. Longman.

15 Assistants.

The Queensland Museum is a Government Institution, financed by an annual grant.

The **Museum** is mainly devoted to Natural History, but also contains important ethnological collections from Papua.**Library** of 15,000 volumes.**Publications**.—

Annals, up to 1911, ten volumes published.

Memoirs, six volumes published.

**ROYAL SOCIETY OF QUEENSLAND**. No particulars received.**BRISTOL.****UNIVERSITY OF BRISTOL**, Tyndall's Park, Bristol. (1909.)*Terms*: Three a year.*Students*:*Budget* (1917-18):

Income .. .. .	£22,856	1	7
Expenditure .. .. .	24,867	7	5

**OFFICIALS.***Chancellor*.—The Rt. Hon. The Viscount Haldane of Cloan, O.M., K.T., D.C.L.  
LL.D., F.R.S.*Pro-Chancellors*.—

The Rt. Hon. Lewis Fry, LL.D.

George A. Wills, LL.D.

The Rt. Hon. Henry Hobhouse, LL.D.

H. H. Wells, J.P.

*Vice-Chancellor*.—Sir Isambard Owen, D.C.L., M.D.*Pro-Vice-Chancellor*.—Professor C. Lloyd Morgan, D.Sc., LL.D., F.R.S.*Treasurer*.—Stanley H. Badock, J.P.*Registrar*.—James Rafter, M.A.**Degrees conferred :***Degrees.**Hoods.*

B.A. - - -	University red, lined with lighter university red silk.
M.A. - - -	University red, lined with white silk.
D.Litt. - - -	University red, lined with salmon silk.
B.Sc. - - -	University red, lined with lighter university red silk.
M.Sc. - - -	University red, lined with white silk.
D.Sc. - - -	University red, lined with salmon silk.
M.B., Ch.B. - - -	University red, lined with lighter university red silk.
Ch.M. - - -	University red, lined with white silk.
M.D. - - -	University red, lined with salmon silk.
Ph.D. - - -	University red, lined with salmon silk.

**PROFESSORS.****FACULTY OF ARTS.****Professors :**

- F. F. Boillot, *French*.  
 F. Brooks, *Classics*.  
 J. E. V. Crofts, *English*.  
 J. F. Dobson, *Greek*.  
 G. H. Leonard, *Modern History*.  
 C. L. Morgan, *Psychology and Ethics*.  
 H. M. Wodehouse, *Education*.

**Readers and Lecturers:**

- C. Ord, *German*.  
 E. Gualtieri, *Italian*.  
 E. Sibree, *Oriental Languages*.  
 H. Pitman, *Classics*.  
 P. Haworth, *English*.  
 E. G. Ingram, *English*.  
 M. C. Staveley, *History*.  
 W. L. Cooper, *History*.

**Readers and Lecturers—Continued :**

- C. MacInnes, *History*.  
 A. Gardner, *Byzantine History*.  
 B. M. N. Perkins, *French*.  
 T. S. Foster, *Method*.  
 A. Mullock, "  
 Rev. J. Polack, *Hebrew*.  
 Rev. de Lacy O'Leary, *Aramaic, Syriac, and Hellenistic Greek*.  
 A. M. Wilshere, *Law*.  
 C. A. Chilton, "  
 T. S. Foster, *Education*.  
 M. F. Pease, "  
 C. Bueknall, *Harmony and Counterpoint*.  
 Rev. J. Segall, *Arabic*.  
 Major C. Corfield, *Military Law*.  
 Capt. R. I. Rawson, *Military Organization and Administration*.

**FACULTY OF SCIENCE.****Professors :**

- B. T. P. Barker, *Agricultural Biology*.  
 E. S. Boulton, *Applied Mathematics*.  
 O. V. Darbishire, *Botany*.  
 F. Francis, *Chemistry*.  
 H. R. Hasse, *Mathematics*.  
 J. W. McBain, *Physical Chemistry*.  
 S. H. Reynolds, *Geology*.  
 A. M. Tyndall, *Physics*.  
 J. Wertheimer, *Applied Chemistry*.

**Readers and Lecturers :**

- H. Bolton, *Paleontology*.  
 W. D. Henderson, *Zoology*.  
 P. Fraser, *Pure Mathematics*.  
 S. Brodetsky, *Applied Mathematics*.  
 I. Williams, *Physics*.  
 B. Hodgson, *Physics*.  
 O. C. M. Davis, *Chemistry*.  
 F. W. Rixon, „  
 M. Nierenstein, *Biochemistry*.  
 E. Russel, *Chemistry*.  
 C. T. Gimmingham, *Agricultural Chemistry*.  
 A. H. Lees, *Plant Pathology*.  
 O. Grove, *Oenology*.  
 S. P. Wiltshire, *Mycology*.  
 H. Stanley, *Applied Chemistry*.  
 J. D. Fry, *Physics*.  
 J. W. White, *Systematic Botany*.

**FACULTY OF MEDICINE.****Professors :**

- G. A. Buckmaster, *Physiology*.  
 F. H. Edgeworth, *Medicine*.  
 E. Fawcett, *Anatomy*.  
 I. W. Hall, *Pathology*.  
 C. A. Morton, *Surgery*.

**Post-Graduate Courses.**—Post-Graduate Courses in all faculties leading to the Diploma in Education and Diploma in Public Health.

**Libraries.—**

- General Library. *Librarian* : E. Sibree, M.A.  
 Medical Library. *Hon. Librarian* : C. K. Rudge, M.R.C.S., L.R.C.P.

**AFFILIATED INSTITUTIONS.**

- National Fruit and Cider Institute, Long Ashton, Somerset.  
 The Baptist College, Bristol.  
 The Western College, Bristol.  
 The Theological College, Salisbury.  
 St. Boniface College, Warminster.  
 Redland High School and Colston's Girls' School, Bristol (for Froebel Training).

**MERCHANT VENTURERS' TECHNICAL COLLEGE, Bristol. (1856.)**

The Faculty of Engineering of the University of Bristol is provided and maintained in the College.

*Terms* : Three per year—October to June.

*Students* : 200, exclusive of more than 600 evening students.

*Budget* : Expenditure about £13,000 a year.

**Professors—Continued :**

- J. Swain, *Surgery*.  
 W. C. Swayne, *Obstetrics*.

**Lecturers :**

- D. S. Davies, *Public Health*.  
 J. P. Bush, *Operative Surgery*.  
 R. G. P. Lansdown, *Practical Surgery*.  
 C. H. Walker, *Ophthalmology*.  
 G. Parker, *Forensic Medicine and Toxicology*.  
 N. Neild, *Pharmacology and Therapeutics*.  
 W. R. Ackland, *Dental Surgery*.  
 E. A. G. Dowling, *Operative Dental Surgery*.  
 J. C. Wing, *Dental Mechanics*.  
 P. W. Williams, *Laryngology, Rhinology, and Otology*.  
 D. C. Rayner, *Obstetrics*.  
 E. W. H. Groves, *Surgery to Dental Students*.  
 J. V. Blachford, *Mental Diseases*.  
 A. R. Short, *Physiology*.  
 F. R. Cross, *Ophthalmology*.

**FACULTY OF ENGINEERING.****Professors :**

- R. M. Ferrier, *Civil Engineering*.  
 W. Morgan, *Automobile Engineering*.  
 A. Robertson, *Mechanical and Mining Engineering*.  
 D. Robertson, *Electrical Engineering*.

**Lecturers :**

- W. E. Francis, *Civil Engineering*.  
 F. R. B. Watson, *Mechanical Engineering*.  
 11 Assistant Lecturers, 11 Demonstrators, 32 Recognized Teachers.

OFFICIALS.

*Dean*.—Prof. J. Wertheimer, B.A., D.Sc., F.I.C.

*Secretary*.—G. H. Pope, M.A., B.C.L., D.L.

*Treasurer*.—W. W. Ward, M.A., LL.D., J.P.

Degrees conferred.—B.Sc., M.Sc., and D.Sc. in Engineering.

PROFESSORS.

R. M. Ferrier, *Civil Engineering*.

A. Robertson, *Mechanical Engineering*.

D. Robertson, *Electrical Engineering*.

W. Morgan, *Automobile Engineering*.

J. Wertheimer, *Applied Chemistry*.

E. S. Boulton, *Applied Mathematics*.

S. H. Reynolds, *Geology*.

150 Lecturers, 13 Assistant Lecturers,

10 Demonstrators.

**Post-Graduate Courses** are provided in all departments, and a large amount of research work is carried on in the Faculty.

**Learned Societies**.—University of Bristol Engineering Society. *President*: Prof. D. Robertson. *Chairman*: J. A. L. Hooper. *Secretary*: J. R. Bamber.

The Library contains about 6,000 volumes. *Librarian*: Dorothy B. Shepherd.

**BRITISH COLUMBIA, UNIVERSITY OF.** See VANCOUVER.

**BRITISH MEDICAL ASSOCIATION.** See LONDON.

**BRITISH MUSEUM.** See LONDON.

**BRITISH ORNITHOLOGISTS' UNION.** See LONDON.

**BROWN UNIVERSITY.** See PROVIDENCE.

**BRUNSWICK (Maine).**

**BOWDOIN COLLEGE.** No particulars received.

**BRYN MAWR (Pennsylvania).**

**BRYN MAWR COLLEGE,** Bryn Mawr, Pa. (1880.)

*Terms*: Two semesters—October to February, February to June.

*Students*: Undergraduates, 385; Graduates, 98. (Number of undergraduates limited by number of rooms available in halls of residence.)

OFFICIALS.

*President*.—M. Carey Thomas, Ph.D., LL.D.

*Acting President for 1919-20*.—Helen H. Taft, A.M.

*Recording Dean and Assistant to the President*.—Isabel Maddison, B.Sc., Ph.D.

*Dean of the College for 1919-21*.—Hilda W. Smith, A.M.

*Secretary and Registrar of the College*.—Edith Orlady, A.B.

Degrees conferred:

B.A. Hood—lined yellow silk, trimmed white fur.

M.A. Hood—lined yellow silk, trimmed white velvet.

Ph.D. Hood—lined yellow silk, with edge of blue velvet.

PROFESSORS.

**FACULTY OF ARTS AND SCIENCES.**

**Professors:**

J. Barnes, *Physics*.

G. A. Barton, *Biblical Literature and Semitic Languages*.

F. Bascom (Miss), *Geology*.

**Professors—Continued:**

R. F. Brunel, *Chemistry*.

R. Carpenter, *Classical Archeology*.

M. Castro (Miss), *Education*.

R. K. Crandall (Miss), *English Composition*.



**Professors—Continued :**

F. DeHaan, *Spanish*.  
T. de Leo de Laguna, *Philosophy*.  
L. M. Donnelly (Miss), *English*.  
C. G. Fenwick, *Political Science*.  
C. E. Ferree, *Experimental and Systematic Psychology*.  
H. L. Gray, *History*.  
W. B. Huff, *Physics*.  
K. D. Jessen, *German*.  
G. G. King (Miss), *History of Art*.  
S. M. Kingsbury (Miss), *Social Economy and Social Research*.  
J. H. Leuba, *Psychology*.  
H. N. Sanders, *Greek*.  
C. A. Scott (Miss), *Mathematics*.  
M. P. Smith (Mrs.), *Economics*.  
W. R. Smith, *History*.  
D. H. Tennent, *Biology*.  
A. L. Wheeler, *Latin*.

**Associate Professors :**

J. B. Beck, *French Philology*.  
S. C. Chew, *English Literature*.  
C. W. David, *History*.  
G. M. A. de Laguna (Mrs.), *Philosophy*.  
S. C. Brooks, *Physiology and Bio-Chemistry*.  
A. J. Pell (Mrs.), *Mathematics*.  
H. J. Savage, *English Composition*.  
E. M. Schenck (Miss), *French*.  
W. C. Wright (Mrs.), *Greek*.

**Associates :**

A. H. Arlitt (Mrs.), *Education*.  
J. L. Crenshaw, *Physical Chemistry*.  
G. Rand (Miss), *Experimental and Applied Psychology*.  
A. R. Riddell (Miss), *Italian*.  
E. E. Sabin (Miss), *Philosophy*.  
4 Lecturers, 12 Instructors, 2 Readers,  
4 Demonstrators.

**Post-Graduate Courses** leading to the degree of Doctor of Philosophy are given in the following subjects:

Sanskrit and Indo-European Philology, Greek, Latin, English, Philology including Anglo-Saxon, Early and Middle English, English Literature, German Literature, Gothic Teutonic Philology, Old Norse, Old High German, Old Saxon, Modern and Old French, Italian, Spanish, and other Romance Languages, Hebrew, Aramaic, Assyrian, Biblical Literature, History, Economics, and Politics, Social Economy and Social Research, Philosophy, Psychology, Education, Classical Archeology, History of Art, Mathematics, Physics, Chemistry, Physical Chemistry, Geology, Mineralogy, Paleontology, Morphology, Physiology, and Bio-Chemistry.

**Learned Societies.**—Journal Club meetings held fortnightly for discussion of periodical literature and recent research in the following departments:

Greek, Latin, English, Romance Languages, German, History Economics and Politics, Social Economy, Philosophy, Psychology Education, Classical Archeology, History of Art, Mathematics, Physics, Chemistry, Geology, Biology.

Library of 90,000 volumes; 10,000 dissertations and pamphlets; over 400 periodicals, reviews, and scientific journals.

## BUFFALO (New York).

**UNIVERSITY OF BUFFALO, N.Y. (1846.)**

*Terms :* Two semesters—September to February, February to June.

*Students :* 1049.

### OFFICIALS.

*Chancellor.*—Charles P. Norton.

*Secretary of the Council.*—Philip B. Goetz.

*Treasurer.*—W. H. Crosby.

*Dean of the Faculty of Arts and Sciences.*—Julian Park.

*Dean of the Faculty of Medicine.*—Charles S. Jones.

*Dean of the Faculty of Pharmacy and Chemistry.*—W. G. Gregory.

*Dean of the Faculty of Dentistry.*—Daniel H. Squire.

*Dean of the Faculty of Law.*—Carlos C. Alden.

**Degrees conferred.**—B.A., B.Sc., Doctor of Medicine, Doctor of Pharmacy, Master of Pharmacy, Graduate in Pharmacy, Pharmaceutical Chemist, Analytical Chemist, Doctor of Dental Surgery, Bachelor of Laws, Master of Laws.

Caps, gowns, and hoods correspond to the American intercollegiate code.



PROFESSORS.

**FACULTY OF ARTS AND SCIENCES.**

Albert P. Sy, *Chemistry*.  
 W. H. Sherk, *Mathematics*.  
 A. R. Shadle, *Biology*.  
 P. B. Goetz, *English*.  
 J. Park, *History*.  
 E. J. Moore, *Physics*.  
 D. B. Leary, *Philosophy*.  
 3 Associates, 6 Instructors, 10 Lecturers.

**FACULTY OF DENTISTRY.**

D. H. Squire, *Operative Dentistry*.  
 C. K. Buell, *Crown and Bridge Work*.  
 (Vacant), *Physiology*.  
 M. Clinton, *Surgery*.

**FACULTY OF MEDICINE.**

De L. Rochester, *Principles and Practice of Medicine*.  
 H. U. Williams, *Pathology and Bacteriology*.

**Post-Graduate Courses.**—Course in Public Health (in the Medical Faculty.)

Museums of medical and dental pathology, geology, and mineralogy.

**Libraries.**—

General Library. *Librarian*: Jean Agnew.  
 Medical Library. *Librarian*: Irving P. Lyon.  
 Dental Library. *Librarian*: (Vacant.)  
 Law Library. *Librarian*: George D. Crofts.

**Faculty of Medicine—Continued:**

G. W. Wende, *Dermatology*.  
 J. W. Putman, *Neurology*.  
 H. G. Matzinger, *Psychiatry*.  
 J. L. O'Brien, *Medical Jurisprudence*.  
 F. C. Goldsborough, *Obstetrics*.  
 De Witt H. Sherman, *Pediatrics*.  
 G. F. A. Hartman, *Physiology*.  
 E. G. Starr, *Ophthalmology*.  
 De Lancey Rochester, *Medicine*.  
 G. F. Cott, *Oto-Laryngology*.  
 E. R. McGuire, *Surgery*.  
 W. W. Plummer, *Orthopedics*.  
 E. W. Koch, *Pharmacology*.  
 W. J. Atwell, *Anatomy*.  
 E. H. Long, *Materia Medica and Therapeutics, and Toxicology*.  
 R. F. Morgan, *Microscopy*.  
 7 Lecturers; 48 Assistant, Adjunct, and Associate Professors; 41 Instructors; 16 Assistants and other Teachers.

**BUREAU OF AMERICAN ETHNOLOGY.** See WASHINGTON.

**BUREAU OF EDUCATION (India).** See SIMLA.

**BURLINGTON (Vermont).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—J. L. Hills.

**BUSSEY INSTITUTION.** See BOSTON.

**CAIRO (Egypt).**

**PHYSICAL DEPARTMENT, MINISTRY OF PUBLIC WORKS, Cairo.**

*Controller.*—H. E. Hurst.  
*Director of Hydrology and Physical Research.*—E. B. H. Wade.  
*Director of Weights and Measures Service.*—P. A. Curry.  
*Director of Meteorological Service.*—H. Knox-Shaw.

The technical staff of the Department numbers 80.

**HELWAN OBSERVATORY.**

Latitude 29° 51' 33" N. Longitude 31° 20' 30" E. Height above sea-level, 116 metres.

Astronomical Observatory and First Order. Meteorological Station for Egypt.

*Director.*—H. Knox-Shaw.

Staff of 12 Assistants.

# CALCUTTA (India).

**CALCUTTA UNIVERSITY**, College Square, Calcutta. (1857.)

*Session* : June to May.

## OFFICIALS.

*Chancellor*.—His Excellency the Rt. Hon. Sir F. J. N. Thesiger, P.C., G.C.S.I., G.C.M.G., G.C.I.E., Baron Chelmsford.

*Vice-Chancellor*.—The Hon. Sir Nilratan Sircar, Kt., M.A., M.D.

*Rector*.—His Excellency the Rt. Hon. L. J. L. Dundas, G.C.I.E., Earl of Ronaldshay.

*Registrar*.—J. C. Ghosh, M.A.

*Assistant Registrar*.—C. B. Maitra, M.A.

*Controller of Examination*.—Rai A. C. Bose, Bahadur, M.A.

**Degrees conferred**.—B.A., B.Sc., M.A., M.Sc., LL.B., LL.M., LL.D., M.B., B.E., D.Ph., D.Sc., M.D., M.O.

## PROFESSORS.

### Professors :

P. Bruhl, *Botany*.

C. E. Cullis, *Higher Mathematics*.

(Vacant), *Economics*.

B. N. Seal, *Philosophy*.

D. R. Bhandarkar, *Ancient History*.

Sir P. C. Ray (Sir Taraknath Palit Professor). [Professor].

C. V. Raman (Sir Taraknath Palit Sudhansukumar Banerjee (Sir Rashbehary Ghose Professor).

D. M. Bose (Sir Rashbehary Ghose Professor).

1 Lecturer in French; 14 Lecturers in English; 18 Lecturers in Sanskrit; 9 Lecturers in Pali; 6 Lecturers in Arabic and Persian; 3 Lecturers in Comparrhic Philology; 13 Lecturers in Philosophy; 7 Lecturers in Experimental Psychology; 23 Lecturers in History; 14 Lecturers in Economics; 11 Lecturers in Pure Mathematics. 1 Instructor in Tibetan; 1 Instructor in Modern Languages; 1 Instructor in Japanese; 4 Instructors in Chemistry; 2 Instructors in Geology; 2 Teachers in Pali; 1 Research Fellow.

## AFFILIATED COLLEGES.

Anandomohan College, Mymeneingh.

Bagerhat College.

Bangabasi College.

Bethune College.

Brajamonhan College, Barisal.

Burdwan Raj College.

Carmichael Medical College, Belgachia.

Carmichael College, Rungpore.

Central College, Calcutta.

Chittagong College.

City College, Calcutta.

Civil Engineering College, Sibpore.

Cotton College, Gauhati.

Dacca College.

Dacca Law College.

Dacca Training College.

Daulatpore Hindu College.

David Hare Training College.

Diocesan College.

Earle Law College, Gauhati.

Edward College, Pabna.

Hughli College.

Jagannath College, Dacca.

Judson College, Rangoon.

Krishnachandra College, Hetampore.

### Professors—Continued :

S. P. Agharkar (Sir Rashbehary Ghose Professor).

P. C. Mitter (Sir Rashbehary Ghose Professor).

### Assistant Professors :

S. B. Bal, *Botany*.

P. Gangooly, *Ancient History*.

R. Dotta (Sir Taraknath Palit Assistant Professor).

T. K. Chinmayanandam (Sir Taraknath Palit Assistant Professor).

Krishnagar College.

Krichnath College, Bernhampore.

Loreto House, Calcutta.

Medical College, Calcutta.

Midnapore College.

Murarichand College, Sylhet.

Presidency College, Calcutta.

Rajendra College, Faridpore.

Rajshahi College.

Rangoon College.

Rangoon Law College.

Ripon College, Calcutta.

Ripon Law College, Calcutta.

Sanskrit College.

Scottish Churches College, Calcutta.

Serampore College.

South Suburban College, Bhowanipore.

St. Paul's C.M. College, Calcutta.

St. Xavier's College.

Uttarpara College.

Victoria College, Comilla.

Victoria College, Cooch Bihar.

Victoria College, Narail.

Vidyasagar College.

Wesleyan Mission College, Bankura.

**CALCUTTA MADRASAH**, Wellesley Square, Calcutta.

Founded by Warren Hastings in 1780.

The Madrasah as at present existing provides through the medium of the Arabic Department a linguistic and Islamic training, based in great part on the systems in vogue in the ancient seats of Arabic learning, with a course of reading in Persian or English, and, through the medium of the Anglo-Persian Department, a High School education qualifying pupils for admission to the Matriculation Examination of the Calcutta University. The Madrasah is a Government Institution, and is under the control of the Director of Public Instruction, Bengal.

*Session* : July to May.

*Budget* : Current Expenditure: Rs. 62,000.

*Students* : 520 (exclusive of 580 in Anglo-Persian Department).

OFFICIAL.

*Principal*.—A. H. Harley, M.A.

ARABIC DEPARTMENT: PROFESSORS.

M. M. A. Tonki, <i>Arabic</i> (Head Maulvi).	M. Mazhar, <i>Arabic</i> .
M. N. Husain                    "	M. Quasim                   "
S. M. Safiullah                "	M. Suhul                    "
M. Karim                        "	M. J. Ansari                "
M. Ishaq                        "	K. I. M. Arab              "
M. Yahya                        "	S. H. Ali, B.A. (Head Master).
A. Samad                        "	Samiruddin, B.A.
S. Wasiuddin                   "	

ANGLO-PERSIAN DEPARTMENT: MASTERS.

*Head Master*.—M. Yusuf, M.A.

*Assistant Head Master*.—K. P. Bhattacharya, B.A.

R. Quads, <i>Anglo-Persian</i> .	A. Khaled, <i>Anglo-Persian</i> .
Azhar-us-Sadain               "	S. Ahmad                   "
S. Khaliluddin                "	S. Shah                    "
M. Ahmad                       "	A. S. M. Karim           "
M. A. Mannan                "	Z. A. Khan                "
Besharatullah                "	M. A. Ali                   "
H. Nazir                        "	M. Qasim                   "
M. Taheruddin                "	K. Dutt                    "
S. M. A. Ghani                "	B. K. Chakravarty       "

**Post-Graduate Courses.**—The Title Classes provide a special course in the Traditions of Islam and Arabic Literature after the completion of the Senior Course.

**Libraries.**—The Library contains about 15,000 volumes, Arabic, Persian, and Urda literature, being specially well represented. *Librarian* : Maulvi A. M. Fazlul Wahhab.

**SCOTTISH CHURCHES COLLEGE**, Cornwallis Square, Calcutta. (1831.)

The College is affiliated to the Calcutta University, and teaches up to the Honours standard in English, Philosophy, Sanskrit, History, Economics, Mathematics, Physics, and Chemistry in the B.A. course, and in Mathematics, Physics, and Chemistry in the B.Sc. course.

*Terms* : Three a year.

*Students* : 1,127.

OFFICIAL.

*Principal*.—Rev. J. Watt, M.A., D.D.

**Library.**—Of 12,000 volumes.

**ST. PAUL'S CATHEDRAL COLLEGE**, 33, Amherst Street, Calcutta. (1860.)

*Terms* : Three a year.

*Students* : 240.

OFFICIALS.

*Principal*.—Rev. W. E. S. Holland, M.A.

*Vice-Principal*.—Rev. A. B. Johnston, M.A.

**Degrees conferred.**—B.A., I.A.

## PROFESSORS.

Rev. A. B. Johnston, <i>English</i> .	K. L. Banerji, <i>Philosophy</i> .
Rev. R. J. Kennedy, "	D. Mondle, "
J. S. Zemin, <i>English</i> .	J. C. Mondle, <i>Mathematics</i> .
W. S. A. Robertson, <i>English</i> .	S. C. Basu, "
H. Stuart, <i>English</i> .	D. Basu, <i>Economics</i> .
H. K. Bose, "	J. Bhattacharji, <i>Sanskrit and Bengali</i> .
Rev. W. E. S. Holland, <i>History</i> .	P. Chatterji, "
S. P. Vaswani, <i>History</i> .	D. Sircar, <i>Chemistry</i> .
P. Mahanti, "	1 Demonstrator.

Library.—College Library. Librarian : H. Stuart, M.A.

**DAVID HARE TRAINING COLLEGE FOR SECONDARY TEACHERS**, College Square, Calcutta. (1908.)

Affiliated to Calcutta University.

Terms : One a year.

Students : 50.

## OFFICIAL.

Principal.—W. E. Griffith, M.A.

**Degrees conferred**.—L.T. Diploma (Licentiate in Teaching) no hood; B.T. Degree (Bachelor of Teaching). Hood of black silk or stuff, edged on the inside with a border of purple-coloured silk.

Library.—A Technical and General Library. Librarian : Manmatta Nath Mitra.

**GEOLOGICAL SURVEY OF INDIA**, and Geological Museum, 27, Chowringhee Road, Calcutta. (1856.)

Director.—H. H. Hayden, C.S.I., C.I.E., B.A., B.A.I., D.Sc., F.R.S., F.G.S., F.A.S.B.  
Superintendents.—

E. W. Vredenburg, B.L., B.Sc., A.R.S.M., A.R.C.S., F.G.S.

L. Leigh Fermor, O.B.E., A.R.S.M., D.Sc., F.G.S.

E. H. Pascoe, M.A., D.Sc., F.G.S.

Assistant Superintendents.—

G. E. Pilgrim, G. H. Tipper, H. Walker, K. A. K. Hallows, G. de P. Cotter, J. C. Brown, H. C. Jones, A. M. Heron, M. Stuart, C. S. Fox, R. W. Palmer, S. Sethu Rama Rau, M. Vinayak Rao.

Chemist.—W. A. K. Christie.

Head Clerk.—A. K. Banerji.

Geological Museum, Library, and Office, Calcutta.

Library.—Nearly 30,000 volumes.

Publications.—Records, Memoirs, and *Paleontologia Indica*.

**ASIATIC SOCIETY OF BENGAL**, 1, Park Street, Calcutta. (1784.)

## OFFICERS AND MEMBERS OF COUNCIL OF THE SOCIETY.

President.—Mahamahopadhyaya Haraprasad Shastri, C.I.E., M.A., F.A.S.B.

Vice-Presidents.—

The Hon. Justice Sir Asutosh Mukhopadhyaya, Kt., C.S.I., D.L., D.Sc., F.R.S.E., F.R.A.S., F.A.S.B.

The Hon. F. J. Monahan, I.C.S.

Lieut.-Col. W. D. Sutherland, C.I.E., M.D., F.A.S.B., I.M.S.

G. C. Simpson, D.Sc., F.R.S., F.A.S.B.

General Secretary.—W. A. K. Christie, B.Sc., Ph.D., F.A.S.B.

Treasurer.—R. D. Mehta, C.I.E.

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*Medical Secretary.*—Lieut.-Col. D. McCay, M.D., F.A.S.B., I.M.S.  
*Hon. Librarian.*—The Hon. Justice Sir Asutosh Mukhopadhyaya, Kt., C.S.I., D.L., D.Sc., F.R.S.E., F.R.A.S., F.A.S.B.

The Library contains 21,000 printed books and pamphlets, 1,000 periodicals, and 17,850 manuscripts.

**Publications.—**

*Asiatic Researches* (1788-1836).

*Journal* (since 1832).

*Proceedings* (since 1865).

*Journal and Proceedings* (since 1905).

*Bibliotheca Indica* (since 1848).

*Memoirs* (since 1905).

**CALHOUN (Louisiana).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—W. R. Dodson.

**CAMBRIDGE.**

**THE UNIVERSITY OF CAMBRIDGE.**

*Terms* : Three per year.

*Students (Undergraduates)* : 4,582.

**OFFICIALS.**

*Chancellor.*—The Right Hon. John William Strutt, Baron Rayleigh, O.M., M.A., Hon. Sc.D. (Trin.).

*Vice-Chancellor.*—Sir Arthur Everett Shipley, Sc.D. (Chr.).

*High Steward.*—(Vacant).

*Deputy High Steward.*—John Frederick Peel Rawlinson, K.C., LL.M. (Trin.).

*Representatives in Parliament.*—

John Frederick Peel Rawlinson, K.C., LL.M. (Trin.).

Prof. Sir Joseph Larmor, M.A. (Joh.).

*Commissary.*—John Frederick Peel Rawlinson, K.C., LL.M. (Trin.).

*Proctors.*—

John Macalister Dodds, M.A. (Pet.).

Robert Alfred Herman, M.A. (Trin.).

*Public Orator.*—T. R. Glover.

*Registrary.*—John Neville Keynes, Sc.D. (Pemb.).

*Librarian.*—Francis John Henry Jenkinson, M.A. (Trin.).

*Counsel.*—

John Alderson Foote, K.C., M.A. (Joh.).

Mark Lemon Romer, K.C., M.A. (Trin. H.).

*Esquire Bedells.*—

Arthur Humble Ekans, M.A. (Cla.).

Rupert Hamblin Smith, M.A. (Pet.).

*Deputy Vice-Chancellors for the Years 1918-1919.*—

Dr. Giles, Master of Emmanuel.

Mr. Fitzpatrick, President of Queens'.

*Sex Viri.*—Dr. Pearce, Sir W. Durnford, G.B.E., Professor Buckland, Dr. Giles, Mr. R. F. Scott, Dr. Kenny.

*Court of Discipline.*—Dr. Anderson, Mr. A. Gray, Mr. Fitzpatrick, Mr. Hadley, Dr. Mollison, Mr. R. F. Scott.

*Auditors of Chest.*—Mr. Hadley, Mr. Corbett (King's), Mr. Peel (Magd.).

*Moderators.*—Mr. Welsh (Jes.), Mr. Hardy (Trin.).

*Deputy Proctors.*—Mr. Munro (Qu.), Mr. Ramsey (Magd.).

*Pro-Proctors.*—Mr. Glover (Joh.), Mr. Rushmore (Cath.).

*Organist.*—A. H. Mann, Mus.D. (Oxf.), Hon. M.A. (King's).

*Sir Robert Rede's Lecturer.*—The Right Hon Lord Moulton, K.C.B., G.B.E., M.A. Hon. LL.D. (Chr.).

*Lady Margaret's Preacher.*—The Ven. A. G. Robinson, M.A.

*Hulsean Lecturer.*—The Rev. A. Nairne, D.D. (Jes.).



### Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Black silk, trimmed with white fur.
B.C. - -	Black silk, lined with pink silk.
B.D. - -	Black silk.
D.D. - -	Scarlet cloth, lined pink and violet shot silk.
Litt.D. - -	Scarlet cloth, lined scarlet silk.
LL.B. - -	Black silk, trimmed with white fur.
LL.D. - -	Scarlet silk, lined light cherry-coloured silk.
LL.M. - -	Black silk, lined with white silk.
M.A. - -	Black silk, lined with white silk.
M.B. - -	Black silk, lined with pink silk.
M.C. - -	Black silk, lined with white silk.
M.D. - -	Scarlet cloth, lined with dark cherry-coloured silk.
Mus.B. - -	Dark cherry-coloured satin, lined with white fur.
Mus.M. - -	Black silk, lined with white silk.
Mus.D. - -	Damasked cream-white silk, lined with dark cherry-coloured satin.
Sc.D. - -	Scarlet cloth, lined with pink and blue silk.

### PROFESSORS.

#### FACULTY OF DIVINITY.

##### Professors :

- J. F. Bethune-Baker, *Divinity*.  
V. H. Stanton, *Divinity*.  
F. C. Burkitt, "  
W. E. Barnes, "  
A. E. Brooke, "

##### Lecturer :

- T. H. Greig, *Pastoral Theology*.

#### FACULTY OF LAW.

##### Professors :

- W. W. Buckland, *Civil Law*.  
H. D. Hazeltine, *Law*.  
L. Oppenheim, *International Law*.

#### FACULTY OF MEDICINE.

##### Professors :

- Sir T. Clifford Allbutt, *Physics*.  
A. Macalister, *Anatomy*.  
J. B. Bradbury, *Medicine*.  
J. N. Langley, *Physiology*.  
G. Sims Woodhead, *Pathology*.

##### Reader :

- J. Barcroft, *Physiology*.

##### Lecturers :

- J. E. Purvis, *Chemistry and Physics in their application to Hygiene and Preventive Medicine*.  
G. S. Graham-Smith, *Hygiene*.  
S. W. Cole, *Medical Chemistry*.  
L. Cobbett, *Pathology*.  
W. E. Dixon, *Pharmacology*.  
W. B. Hardy, *Physiology*.  
L. E. Shore, *Physiology* (Advanced).  
A. V. Hill, *Physiology*.  
H. Hartridge, *Physiology of the Senses*.  
T. S. P. Strangeways, *Special Pathology*.  
F. Deighton, *Vaccination*.

#### MATHEMATICS, ASTRONOMY, PHYSICS, CHEMISTRY, AND MINERALOGY, ETC.

##### Professors :

- Sir Joseph Larmor, *Mathematics*.  
Sir W. J. Pope, *Chemistry*.  
A. S. Eddington, *Astronomy*.  
H. F. Baker, *Astronomy and Geometry*.  
Sir James Dewar, *Natural Philosophy*.  
W. J. Lewis, *Mineralogy*.  
E. W. Hobson, *Pure Mathematics*.  
Sir E. Rutherford, *Experimental Physics*.  
C. E. Inglis, *Mechanism and Applied Mechanics*.  
H. F. Newall, *Astrophysics*.  
F. G. Hopkins, *Biochemistry*.

##### Readers :

- C. T. Heycock, *Metallurgy*.  
A. Harker, *Petrology*.

##### Lecturers :

- F. J. M. Stratton, *Astrophysics*.  
H. J. H. Fenton, *Chemistry*.  
C. G. Lamb, *Electrical Engineering*.  
G. F. C. Searle, *Experimental Physics*.  
C. T. R. Wilson, "  
C. S. Myers, *Experimental Psychology*.  
H. W. Richmond, *Mathematics*.  
R. A. Herman, "  
T. J. I'A. Bromwich, "  
J. H. Grace, *Mathematics*.  
A. Berry, "  
G. H. Hardy, "

#### BIOLOGY AND GEOLOGY.

##### Professors :

- A. C. Seward, *Botany*.  
J. E. Marr, *Geology*.  
J. S. Gardiner, *Zoology and Comparative Anatomy*.  
G. H. F. Nuttall, *Biology*.  
R. C. Punnett, *Genetics*.



**Readers :**

- F. F. Blackman, *Botany*.  
 F. G. Hopkins, *Chemical Physiology*.  
 Sir A. E. Shipley, *Zoology*.  
 A. C. Haddon, *Ethnology*.

**Lecturers :**

- H. Gadow, *Advanced Morphology of Vertebrates*.  
 A. G. Tansley, *Botany*.  
 E. H. Minns, *Paleography*.  
 H. Woods, *Paleozoology*.  
 W. L. H. Duckworth, *Physical Anthropology*.  
 L. A. Borradaile, *Zoology*.  
 L. Doncaster, *Zoology*.

**ORIENTAL LANGUAGES.****Professors :**

- R. H. Kennett, *Hebrew*.  
 E. G. Browne, *Arabic*.  
 A. A. Bevan, "  
 E. J. Rapson, *Sanskrit*.  
 H. A. Giles, *Chinese*.

**Reader :**

- I. Abrahams, *Talmudic*.

**Lecturers :**

- N. McLean, *Aramaic*.  
 R. A. Nicholson, *Persian*.

**CLASSICS, ETC.****Professors :**

- H. Jackson, *Greek*.  
 A. E. Housman, *Latin*.  
 H. M. Chadwick, *Anglo-Saxon*.

**Readers :**

- P. Giles, *Comparative Philology*.  
 W. Ridgeway, *Classics*.

**Lecturer :**

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 T. Okey, *Italian*.

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- E. C. Quiggin, *German*.  
 A. O. Goudy, *Russian*.

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- J. B. Bury, *Modern History*.  
 W. Ridgeway, *Archeology*.  
 J. P. Whitney, *Ecclesiastical History*.  
 J. S. Reid, *Ancient History*.  
 J. Holland Rose, *Naval History*.

**Readers :**

- A. B. Cook, *Classical Archeology*.  
 J. H. Rose, *Modern History*.

**Lecturer :**

- T. R. Glover, *Ancient History*.

**GEOGRAPHY.****Lecturers :**

- H. Y. Oldham, *Geography (Historical and Economic)*.  
 P. Lake, *Geography (Regional and Physical)*.  
 C. S. Wright, *Surveying and Cartography*.

**AGRICULTURE.****Professors :**

- T. B. Wood, *Agriculture*.  
 R. H. Biffin, *Agricultural Botany*.  
 W. Dawson, *Forestry*.  
 K. J. J. Mackenzie, *Agriculture*.

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- F. H. A. Marshall, *Agricultural Physiology*.  
 C. R. Fay, *Agriculture*.

**MORAL SCIENCES, ETC.****Professors :**

- W. R. Sorley, *Moral Philosophy*.  
 A. C. Pigou, *Political Economy*.  
 J. Ward, *Mental Philosophy and Logic*.

**Lecturers :**

- J. M. Keynes, *Economics*.  
 W. T. Layton, "  
 G. E. Moore, *Moral Science*.  
 W. E. Johnson, "  
 G. Udny Yule, *Statistics*.

**MUSIC.****Professor :**

- Sir Charles V. Stanford, *Music*.

**Lecturer :**

- C. Wood, *Harmony and Counterpoint*.

**FINE ART.****Professor :**

- E. S. Prior, *Fine Arts*.

**COLLEGES AND COLLEGE LECTURERS.****Peterhouse College.**

- Master*.—Sir Adolphus W. Ward, M.A., Litt.D.  
*Tutor*.—H. J. Edwards, M.A. [M.A.]  
*Assistant Tutor*.—H. W. V. Temperley,

**Lecturers :**

- J. M. Dodds, *Mathematics*.  
 J. H. Grace, "  
 H. J. Edwards, *Classics*.  
 H. W. V. Temperley, *History*.

### Clare College.

*Master.*—W. Loudon Mollison, M.A., LL.D.

*Tutor.*—J. R. Wardale, M.A.

#### Lecturers :

W. J. Harrison, *Mathematics*.  
J. R. Wardale, *Classics*.  
Rev. P. C. T. Crick, *Theology*.  
A. P. Higgins, *Law*.  
H. Thirkill, *Physics and Chemistry*.  
H. H. Brindley, *Biology and Zoology*.  
Ff. Roberts, *Physiology*.  
M. D. Forbes, *English*.  
Rev. J. M. V. Hope, *Moral Philosophy*.

### Pembroke College.

*Master.*—W. Sheldon Hadley, M.A.

*Tutor.*—J. C. Lawson, M.A.

#### Lecturers :

G. Birtwistle, *Mathematics*.  
J. C. Lawson, *Classics*.  
W. S. Hadley, "  
L. Whibley, "  
J. R. Mozley, *Divinity*.  
A. Hutchinson, *Natural Science*.  
W. S. Hadley, *Modern History*.  
L. Whibley, *Ancient History*.  
G. P. Moriarty, *History*.  
C. H. Ziegler, *Law*.  
H. C. Comber, *Modern Languages*.  
J. C. Lawson, *Modern Greek*.  
E. H. Morris, *Russian*.  
J. T. Spittle, *Mechanical Science*.  
J. M. Keynes, *Economics*.

### Gonville and Caius College.

*Master.*—H. K. Anderson, M.A., M.D., F.R.S.

*Tutors.*—

W. B. Hardy, M.A., Sec. R.S.  
J. F. Cameron, M.A. (Senior).  
F. J. M. Stratton, D.S.O., M.A.  
A. D. McNair, C.B.E., M.A., LL.M.

#### Lecturers :

E. G. Gallop, *Mathematics*.  
J. F. Cameron, "  
F. J. M. Stratton, "  
W. T. Vesey, *Classics*.  
J. E. Scott, "  
A. D. McNair, *Law*.  
Z. N. Brooke, *History*.  
R. F. D'Arcy, *Physics*.  
W. B. Hardy, *Physiology*.  
O. Forster Cooper, *Zoology*.  
D. G. Reid, *Anatomy*.  
F. T. Brooks, *Botany*.  
H. H. Brindley, *Biology*.  
H. Woods, *Geology*.  
Rev. J. W. Hunkin, *Divinity*.  
S. A. Cook, *Hebrew and Syriac*.  
S. A. Cook, *Comparative Study of Religion*.  
G. Wood, *Music*.

#### Lecturers—Continued :

E. C. Quiggin, *Modern Languages and Celtic*.  
J. F. Cameron, *Engineering*.  
C. S. Myers, *Moral Sciences and Psychology*.

### Trinity Hall.

*Master.*—Henry Bond, M.A., LL.D.

*Tutors.*—

Rev. G. A. Chase.  
W. St. J. Pym.

#### Lecturers :

Rev. C. F. Angus, *Classics*.  
H. Bond, *Law*.  
D. T. Oliver, *Law*.  
Rev. G. A. Chase, *Divinity*.  
F. A. Potts, *Natural Science*.  
J. E. S. Green, *History*.  
F. W. Dootson, *Chemistry and Physics*.  
R. A. Hayes, *Engineering*.

### Corpus Christi College.

*Master.*—Rev. Edmund Courtenay Pearce.

*Tutor.*—W. Spens.

#### Lecturers :

G. P. Thomson, *Mathematics*.  
G. G. Morris, *Classics*.  
W. Spens, *Natural Science*.  
Rev. E. C. Hookyns, *Theology*.  
Sir G. G. G. Butler, *History*.  
K. W. M. Pickthorn, *History*.

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*Vice-Provost.*—W. H. Macaulay, M.A.

*Tutor.*—J. H. Clapham.

#### Lecturers :

A. Berry, *Mathematics*.  
H. W. Richmond, *Mathematics*.  
H. H. Sills, *Classics*.  
J. T. Sheppard, *Classics*.  
F. E. Adecock, *Classics*.  
Rev. A. E. Brooke, *Divinity*.  
G. L. Dickinson, *History and Economics*.  
F. W. Reddaway, "  
J. H. Clapham, "  
J. M. Keynes, "  
C. T. Heycock, *Natural Science*.  
J. Barcroft, "  
A. A. Tilley, *Modern Languages*.  
L. B. Turner, *Mechanical Science*.

### Queens' College.

*President.*—Rev. Thomas Cecil Fitzpatrick, M.A.

*Vice-President.*—Rev. Arthur Wright, D.D.

*Tutors.*—

Rev. A. Wright.  
Rev. Joseph H. Gray.

**Lecturers :**

A. Munro, *Mathematics*.  
 Rev. J. H. Gray, *Classics*.  
 A. B. Cook                    "  
 Rev. A. Wright, *Divinity*.  
 Rev. C. T. Wood            "  
 Rev. C. T. Wood, *Hebrew*.  
 Rev. R. G. D. Laffan, *English History*  
                                   *and Literature*.

**St. Catharine's College.**

*Master*.—Rev. Claude Hermann Walter  
 Johns, M.A., Litt.D., D.D.  
*President*.—Rev. E. T. S. Carr.  
*Tutor*.—F. M. Rushmore.

**Lecturers :**

H. W. Spratt, *Classics*.  
 W. H. S. Jones            "  
 F. M. Rushmore, *History*.  
 W. H. S. Jones, *Ancient History*.

**Jesus College.**

*Master*.—Arthur Gray, M.A.  
*Tutors*.—

E. Abbott, M.A.  
 C. A. Elliott, M.A.

**Lecturers :**

J. H. H. Goodwin, *Mathematics*.  
 W. Welch, *Mathematics*.  
 A. Gray, *Classics*.  
 E. Abbott                    "  
 W. H. Duke                 "  
 Rev. A. Nairne, *Theology*.  
 W. L. H. Duckworth, *Natural Science*.  
 W. H. Mills, *Natural Science*.  
 C. A. Elliott, *History and Economics*.

**Christ's College.**

*Master*.—Sir Arthur Everett Shipley,  
 M.A., Sc.D., F.R.S.

*Tutors*.—

Norman McLean, M.A.  
 Harris Rackham, M.A.  
 Francis Hugh Adam Marshall, Sc.D.

**Lecturers :**

J. Mercer, *Mathematics*.  
 C. G. Darwin                "  
 H. Rackham, *Classics*.  
 S. G. Campbell            "  
 R. H. Rastall, *Natural Science*.  
 Rev. A. V. Valentine-Richards, *Theol-*  
                                   *ogy*.  
 N. McLean, *Hebrew*.  
 D. L. Harris, *Law*.  
 C. R. Fay, *History and Economics*.  
 B. W. Downs, *Medieval and Modern*  
                                   *Languages*.

**St. John's College.**

*Master*.—Robert Forsyth Scott, M.A.  
*Provost*.—George Downing Liveing, Hon.  
 Sc.D., F.R.S.

*Tutors*.—

Edward Ernest Sikes, M.A.  
 Ernest Alfred Benians, M.A.  
 Bernard Francis Armitage, M.A.

**Lecturers :**

T. J. P.A. Bromwich, *Mathematics*.  
 E. Cunningham            "  
 T. L. Wren, *Mathematics*.  
 E. E. Sikes, *Classics*.  
 T. R. Glover                "  
 A. J. Campbell, *Classics*.  
 Rev. J. M. Creed, *Theology*.  
 Rev. J. C. H. How, *Hebrew*.  
 J. R. Tanner, *History*.  
 E. A. Benians                "  
 Rev. H. F. Steward, *Modern Languages*.  
 P. H. Winfield, *Law*.  
 C. B. Rootham, *Music*.

**Magdalene College.**

*Master*.—Arthur Christopher Benson,  
 LL.D., C.V.O.  
*President and Tutor*.—Arthur S. Ramsey,  
 M.A.

**Lecturers :**

A. S. Ramsay, *Mathematics*.  
 V. S. Vernon Jones, *Classics*.  
 A. C. Benson, *History*.  
 F. R. Salter                 "  
 T. Peel, *Engineering*.  
 S. Gaseler, *Paleography*.  
 E. Hindle, *Natural Science*.

**Trinity College.**

*Master*.—Sir Joseph John Thomson,  
 M.A., O.M., Pres. R.S.  
*Vice-Master*.—Reginald St. John Parry.  
*Tutors*.—

Reginald Orre Lawrence, M.A.  
 Ernest Harrison, M.A.  
 Guillard Thomas Lapsley, M.A.  
 Denys Arthur Winstanley, M.A.  
 Frederick James Dykes, M.A.

**Lecturers :**

G. H. Hardy, *Mathematics*.  
 J. E. Littlewood            "  
 S. Chapman                 "  
 G. I. Taylor                "  
 F. M. Cornford, *Classics*.  
 E. Harrison                 "  
 D. S. Robertson            "  
 J. McT. Ellis McTaggart, *Moral*  
                                   *Sciences*.  
 W. C. D. Whetham, *Natural Science*.  
 E. D. Adrian                "    "  
 T. C. Nicholas              "    "  
 F. R. Tennant, *Theology*.  
 H. A. Holland, *Law*.  
 R. V. Lawrence, *History*.  
 G. T. Lapeley                "  
 D. A. Winstanley            "  
 F. A. Simpson                "  
 J. R. M. Butler              "

**Lecturers—Continued :**

A. A. Bevan, *Oriental Languages*.  
F. J. Dykes, *Mechanical Science*.  
R. U. Southwell, *Mechanical Science*.  
D. R. Pye, *Mechanical Science*.  
D. A. Robertson, *Economics*.  
T. R. Glover, *Ecclesiastical History*.  
J. R. Tanner, *Military History*.  
J. R. Tanner, *Philosophy of Sciences*.

**Emmanuel College.**

*Master*.—Peter Giles, M.A., Litt.D.

**Tutors.—**

Rev. F. W. Head, M.A., M.C.  
L. H. G. Greenwood, M.A.  
A. Wood, M.A.  
P. W. Wood, M.A.

**Lecturers :**

P. W. Wood, *Mathematics*.  
L. H. G. Greenwood, *Classics*.  
F. H. Bashall, *Classics*.  
Rev. C. E. Raven, *Divinity*.  
Rev. F. W. Head, *History*.  
A. Wood, *Natural Science*.  
T. J. Hele, " "  
J. W. Lesley, " "  
E. W. Naylor, *Musie*.

**Sidney Sussex College.**

*Master*.—Rev. G. A. Weekes, M.A.

**Tutors.—**

Rev. G. A. Weekes, M.A.  
T. Knox-Shaw.

**Lecturers :**

R. H. D. Mayall, *Mathematics*.  
T. Knox-Shaw, "  
R. Hackforth, *Classics*.  
C. R. A. Thacker, *Natural Science*.  
B. T. D. Smith, *Theology*.  
Rev. E. J. Passant, *History*.

**Downing College.**

*Master*.—Albert Charles Seward, M.A.  
F.R.S.

*Tutor*.—James Henry Widdicombe, M.A.

**Lecturers :**

C. H. French, *Mathematics*.  
D. L. Harris, *Law*.  
Rev. E. J. Passant, *History*.  
A. J. Berry, *Chemistry and Physics*.  
J. H. Widdicombe, *Physiology*.  
H. Hamshaw Thomas, *Botany*.  
A. B. Appleton, *Human Anatomy*.  
D. Portway, *Engineering*.  
W. E. Johnson, *Moral Sciences*.  
W. S. Thatcher, *Economics*.  
A. Amos, *Agriculture*.

**Selwyn College.**

*Master*.—Rev. John Owen Farquhar  
Murray, M.A., D.D.

*Vice-Master*.—William Edward Jordan  
M.A.

**Tutors.—**

Hammett Charles Knott, M.A.  
William Edward Jordan, M.A.  
Rev. Spencer Cecil Carpenter, M.A.

**Lecturers :**

H. C. Knott, *Mathematics*.  
W. E. Jordan, *Classics*.  
W. N. Williams, "  
L. A. Borradaile, *Natural Science*.  
Rev. S. C. Carpenter, *Theology*.  
Rev. F. S. Marsh, "  
W. E. Jordan, *History*.

**Fitzwilliam Hall.**

*Censor*.—W. F. Reddaway, M.A.

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*Under-Librarians*.—E. J. Thomas, and A. T. Bartholomew. (University Library.)

*Additional Under-Librarian*.—C. E. Sayle. (University Library.)

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*Chief Assistant*.—W. M. Smart. (Observatory.)

*Second Assistant*.—H. E. Green. (Observatory.)

*Director and Newall Observer*.—Prof. H. F. Newall. (Solar Physics Observatory.)

*Assistant Director*.—F. J. M. Stratton. (Solar Physics Observatory.)

*Observer in Meteorological Physics*.—C. T. R. Wilson. (Solar Physics Observatory.)

*First Senior Observer*.—F. E. Baxandall. (Solar Physics Observatory.)

*Second Senior Observer*.—C. P. Butler. (Solar Physics Observatory.)

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*Hon. Keeper of the Egyptian Antiquities*.—F. W. Green. (Fitzwilliam Museum.)

*Hon. Keeper of the Greek and Roman Antiquities*.—F. H. Marshall. (Fitzwilliam Museum.)

*Hon. Keeper of the Medieval Department*.—Sir W. H. St. John Hope. (Fitzwilliam Museum.)

*Hon. Keeper of the Pictures*.—E. O. Vuliamy. (Fitzwilliam Museum.)

*Hon. Keeper of the Prints*.—J. Charrington. (Fitzwilliam Museum.)

## CAMBRIDGE ATHENA—A YEAR-BOOK OF THE LEARNED WORLD

*Hon. Keeper of the Pottery and Porcelain.*—J. W. L. Glaisher. (Fitzwilliam Museum.)  
*Hon. Keeper of the Music.*—E. J. Dent. (Fitzwilliam Museum.)  
*Curator.*—A. B. Cook. (Museum of Classical Archeology.)  
*Curator.*—Baron A. von Hügel. (Museum of Archeology and of Ethnology.)  
*Superintendent.*—C. F. Cooper. (Museum of Zoology.)  
*Strickland Curator.*—H. Gadow.  
*Director of the Psychological Laboratory.*—C. S. Myers.  
*Curator in Entomology.*—H. Scott.

### GIRTON COLLEGE, Cambridge. (1869.)

*Terms:* As Cambridge University.

*Students:* 167.

#### OFFICIALS.

*Mistress.*—Miss K. Jex-Blake, M.A.  
*Vice-Mistress and Bursar.*—Miss E. M. Allen, M.A.  
*Secretary.*—M. Clover, M.A.

7 Resident Lecturers. 12 Staff Lecturers.

**Degrees conferred.**—At present students are not admitted to the Degrees of University of Cambridge though they are admitted to its Honours Degree Examinations and receive Certificates from the University stating the classes they have obtained.

**Post-Graduate Courses.**—Students can take post-graduate courses in accordance with the regulations of the University of Cambridge.

#### Libraries.—

Stanley Library—General.  
 Cowell Library—Oriental works, chiefly Sanskrit.  
 May Frere Library—Oriental works, Hebrew MSS., etc.  
 Ethel Sargent Library—Botanical works.  
 Blackburn Library—Relating to women's questions.  
 Somerville Library—Mary Somerville's Mathematical books.  
 Crewdson bequest of Egyptian books and antiquities.  
 Saumarez Collection of Tanagre figures.

Total number of volumes, 17,195.

*Librarian:* Miss E. S. Fegan.

### NEWNHAM COLLEGE, Cambridge. (1871.)

*Terms:* As Cambridge University.

*Students:* 240.

#### OFFICIALS.

*Principal.*—Miss Stephen.  
*Vice-Principal.*—Miss B. A. Clough.  
*Bursar.*—Mrs. Henry Sidgwick.  
*Librarian.*—Miss M. Fletcher.

#### COLLEGE LECTURERS.

A. B. Collier (Miss), *Mathematics*.  
 J. E. Harrison (Miss), *Classics*.  
 E. R. Saunders (Miss) } *Natural*  
 G. L. Elles (Miss) } *Sciences*.  
 J. M. W. Slater (Miss)  
 C. B. Firth (Miss), *History*.

J. P. Strachey (Miss), *Modern Lan-*  
 M. S. Smith (Miss), *English*. [*languages*.]  
 A. C. Paves (Miss) "  
 Grier (Miss), *Economics*.  
 2 Assistant Lecturers and 5 Associate  
 Fellows.

## CAMBRIDGE (Massachusetts).

**HARVARD UNIVERSITY** (of which Harvard College is a part), Cambridge, Mass. (1636.)

*Terms:* One per year—September to June.

The total number of students in the University, during the past five academic years was as follows: (1914-15) 5,699, (1915-16) 6,306, (1916-17) 6,952, (1917-18) 4,515, (1918-19) 4,891.

In the Harvard College alone the figures were as follows: (1914-15) 2,473, (1915-16) 2,519, (1916-17) 2,582, (1917-18) 1,681, (1918-19) 2,183.



## OFFICIAL.

*President.*—Abbott Lawrence Lowell, A.B., LL.B., LL.D., Ph.D.

The Corporation, or "President and Fellows," consists of The President, the Treasurer, and Five Fellows. It is a self-perpetuating body.

The Board of Overseers consists of thirty members, elected by the alumni.

The Corporation and Board of Overseers are together known as The Governing Boards.

The various Faculties and Schools are presided over by Deans.

**Degrees conferred.**—A.B., S.B., A.M., S.M., E.M., M.E., S.D., Ph.D., M. Arch., M.L.A., M.F., M.B.A., Ph.D. in Business Economics, LL.B., LL.D., M.D., D.P.H., D.M.D., S.T.B., S.T.M., Th.D., Associate in Arts.

The following honorary degrees: A.M., A.D., D.D., LL.D., S.D., Litt.D.

## PROFESSORS.

## FACULTY OF ARTS AND SCIENCES.

## Professors :

Le Baron R. Briggs, *Rhetoric and Oratory.*  
 C. R. Lanman, *Sanskrit.*  
 E. L. Mark, *Anatomy.*  
 E. S. Sheldon, *Romance Philology.*  
 C. A. Williams, *Military Science and Tactics.*  
 E. H. Hall, *Physics.*  
 H. W. Smyth, *Greek Literature.*  
 Hans C. G. von Jagemann, *Germanic Philology.*  
 E. Channing, *Ancient and Modern History.*  
 P. H. Hanus, *History and Art of Teaching.*  
 F. W. Taussig, *Economics.*  
 J. E. Wolff, *Petrography and Mineralogy.*  
 A. B. Hart, *Science of Government.*  
 A. G. McAdie, *Meteorology.*  
 A. Michael, *Organic Chemistry.*  
 B. Perry, *English Literature.*  
 A. A. Howard, *Latin.*  
 G. L. Kittredge, *English Literature.*  
 C. H. Grandgent, *Romance Languages.*  
 L. Wiener, *Slavic Languages and Literature.*  
 H. C. Bierwirth, *German.*  
 F. J. Turner, *History.*  
 T. W. Richards, *Chemistry.*  
 E. P. Kohler, *Chemistry.*  
 W. F. Osgood, *Mathematics.*  
 G. G. Wilson, *International Law.*  
 G. P. Baker, *Dramatic Literature.*  
 A. C. Coolidge, *History.*  
 C. H. Haskins, *History.*  
 B. S. Hurlbut, *English.*  
 G. H. Parker, *Zoology.*  
 B. L. Robinson, *Systematic Botany.*  
 W. M. Wheeler, *Economic Entomology.*  
 J. H. Woods, *Philosophy.*  
 E. C. Jeffrey, *Plant Morphology.*

## Professors—Continued :

J. L. Lowes, *English.*  
 I. Babbitt, *French Literature.*  
 C. J. Bullock, *Economics.*  
 W. E. Castle, *Zoology.*  
 R. M. Johnston, *Modern History.*  
 C. H. Moore, *Latin.*  
 G. A. Reisner, *Egyptology.*  
 W. H. Schofield, *Comparative Literature.*  
 R. De C. Ward, *Climatology.*  
 C. B. Gulick, *Greek.*  
 W. Z. Ripley, *Political Economy.*  
 T. N. Carver, *Political Economy.*  
 R. A. Daly, *Geology.*  
 C. Palache, *Mineralogy.*  
 F. N. Robinson, *English.*  
 C. H. C. Wright, *French Language and Literature.*  
 W. Duane, *Bio-Physics.*  
 O. Folin, *Biological Chemistry.*  
 J. A. Walz, *German Language and Literature.*  
 W. J. V. Osterhout, *Botany.*  
 G. W. Pierce, *Physics.*  
 J. D. M. Ford, *French and Spanish Languages.*  
 C. H. McIlwain, *History and Government.*  
 E. K. Rand, *Latin.*  
 J. L. Coolidge, *Mathematics.*  
 E. V. Huntington, *Mechanics.*  
 W. B. Munro, *Municipal Government.*  
 G. P. Baxter, *Chemistry.*  
 G. H. Chase, *Archeology.*  
 W. S. Ferguson, *Ancient History.*  
 R. B. Merriman, *History.*  
 R. B. Perry, *Philosophy.*  
 W. W. Atwood, *Physiography.*  
 R. B. Dixon, *Anthropology.*  
 M. L. Fernald, *Natural History.*  
 T. Lyman, *Physics.*  
 C. N. Greenough, *English.*  
 W. M. Persons, *Economics.*  
 W. F. Dearborn, *Education.*  
 E. M. East, *Experimental Plant Morphology.*

**Professors—Continued :**

- L. C. Graton, *Economic Geology*.  
H. A. Yeomans, *Government*.  
W. E. Hoeking, *Philosophy*.  
R. I. Lee, *Hygiene*.  
H. W. Holmes, *Education*.  
P. W. Bridgman, *Physics*.  
G. D. Birkhoff, *Mathematics*.

**Associate Professors :**

- G. S. Raymer, *Mining*.  
C. T. Copeland, *English*.  
I. L. Winter, *Public Speaking*.  
W. R. Spalding, *Music*.  
C. L. Bouton, *Mathematics*.  
F. L. Kennedy, *Engineering Drawing*.  
H. Wilbur Rand, *Zoology*.  
P. E. Raymond, *Paleontology*.  
J. B. Woodworth, *Geology*.

**Assistant Professors :**

- G. E. Johnson, *Education*.  
W. G. Howard, *German*.  
K. G. T. Webster, *English*.  
E. B. Hill, *Music*.  
L. Allard, *French*.  
F. A. Saunders, *Physics*.  
G. B. Weston, *Romance Languages*.  
C. N. Jackson, *Greek and Latin*.  
R. L. Hawkins, *French*.  
W. C. Heilman, *Music*.  
A. B. Lamb, *Chemistry*.  
L. J. A. Mercier, *French*.  
A. Morize, *French Literature*.  
A. E. Norton, *Mechanical Engineering*.  
P. J. Sachs, *Fine Arts*.  
A. M. Tozzer, *Anthropology*.  
O. T. Brues, *Economic Entomology*.  
G. A. Pope, *Fine Arts*.  
G. S. Forbes, *Chemistry*.  
A. J. Inglis, *Education*.  
L. W. Riddle, *Cryptogamic Botany*.  
A. F. Whitten, *Romance Languages*.  
R. F. A. Hoernlé, *Philosophy*.  
G. Jones, *Chemistry*.  
C. R. Post, *Greek and Fine Arts*.  
E. E. Day, *Economics*.  
J. Ford, *Social Ethics*.  
R. K. Haek, *Classics*.  
H. S. Langfeld, *Psychology*.  
A. T. Davison, *Music*.  
A. N. Holecombe, *Government*.  
R. H. Lord, *History*.  
E. L. Chaffee, *Physics*.  
J. Klein, *Economics*.  
J. S. Davis, *Economics*.  
G. H. Edgell, *Fine Arts*.  
W. C. Granstein, *Mathematics*.  
J. B. Conant, *Chemistry*.  
15 Instructors and 4 Lecturers.

**FACULTY OF MEDICINE.**

**Professors :**

- D. L. Edsall, *Clinical Medicine*.  
C. A. Braekett, *Oral Pathology*.  
E. H. Smith, *Clinical Dentistry*.  
W. T. Councilman, *Pathological Anatomy*.  
G. H. Monks, *Oral Surgery*.  
H. C. Ernst, *Bacteriology*.  
W. H. Potter, *Operative Dentistry*.  
W. P. Cooke, *Preventive Dentistry and Oral Hygiene*.  
A. Coolidge, *Laryngology*.  
R. W. Lovett, *Orthopedic Surgery*.  
W. T. Porter, *Comparative Physiology*.  
P. Thorndike, *Genito-Urinary Surgery*.  
M. J. Rosenau, *Preventive Medicine and Hygiene*.  
E. H. Nichols, *Clinical Surgery*.  
E. A. Crockett, *Otology*.  
J. L. Morse, *Pediatrics*.  
A. Quackenboss, *Ophthalmology*.  
C. A. Porter, *Clinical Surgery*.  
E. W. Taylor, *Neurology*.  
R. C. Cabot, *Clinical Medicine*.  
C. J. White, *Dermatology*.  
H. Cushing, *Surgery*.  
W. P. Graves, *Gynecology*.  
R. Hunt, *Pharmacology*.  
O. Folin, *Biological Chemistry*.  
F. S. Newell, *Clinical Obstetrics*.  
R. P. Strong, *Tropical Medicine*.  
H. A. Christian, *Theory and Practice of Physics*.  
W. B. Cannon, *Physiology*.  
E. E. Southard, *Neuropathology*.  
E. E. Tyzzer, *Comparative Pathology*.  
V. H. Kazanjian, *Military Oral Surgery*.

**Associate Professors :**

- F. B. Mallory, *Pathology*.  
J. L. Bremer, *Histology*.  
J. Warren, *Anatomy*.  
F. T. Lewis, *Embryology*.  
S. B. Wolbach, *Pathology and Bacteriology*.  
C. H. Drinker, *Applied Physiology*.

**Assistant Professors :**

- E. G. Braekett, *Orthopedic Surgery*.  
C. L. Seudder, *Surgery*.  
J. B. Blake, *Surgery*.  
H. A. Lothrop, *Surgery*.  
E. P. Joslin, *Medicine*.  
C. M. Smith, *Syphilology*.  
J. H. Wright, *Pathology*.  
R. B. Greenough, *Surgery*.  
H. P. Mosher, *Laryngology*.  
A. Hamilton, *Industrial Medicine*.  
W. H. Robey, jr., *Medicine*.  
F. H. Verhoeff, *Ophthalmic Research*.  
E. A. Boyden, *Comparative Anatomy*.  
E. A. Loekc, *Medicine*.  
D. Cheever, *Surgery*.

**Assistant Professors—Continued :**

P. G. Stiles, *Physiology*.  
C. Floyd, *Bacteriology*.  
M. Fabyan, *Comparative Pathology*.  
E. H. Place, *Pediatrics*.  
W. L. Moss, *Preventive Medicine*.  
R. R. Renshaw, *Chemical Research*.  
F. W. Peabody, *Medicine*.  
A. W. Sellards, *Tropical Medicine*.  
J. Bronfenbrenner, *Preventive Medicine and Hygiene*.  
G. R. Minot, *Medicine*.  
C. H. Fiske, *Biological Chemistry*.  
18 Instructors.

**THE FACULTY OF ENGINEERING.**

**Professors :**

G. F. Swain, *Civil Engineering*.  
A. E. Kennelly, *Electrical Engineering*.  
H. L. Smyth, *Mining and Metallurgy*.  
H. E. Clifford, *Electrical Engineering*.  
L. J. Johnson, *Civil Engineering*.  
A. Sauveur, *Metallurgy and Metallography*.  
G. C. Whipple, *Sanitary Engineering*.  
C. A. Adams, *Electrical Engineering*.  
L. S. Marks, *Mechanical Engineering*.  
E. V. Huntington, *Mechanics*.  
H. J. Hughes, *Civil Engineering*.  
L. C. Graton, *Economic Geology*.  
H. N. Davis, *Mechanical Engineering*.

**Associate Professors :**

G. S. Raymer, *Mining*.  
F. L. Kennedy, *Engineering Drawing*.

**Assistant Professors :**

A. E. Norton, *Mechanical Engineering*.  
G. Jones, *Chemistry*.  
E. L. Chaffee, *Physics*.  
C. L. Dawes, *Electrical Engineering*.

**THE FACULTY OF DIVINITY.**

**Professors :**

W. W. Fenn, *Theology*.  
G. F. Moore, *History of Religion*.  
D. G. Lyon, *Hebrew and other Oriental Languages*.  
E. C. Moore, *Theology and Christian Morals*.  
J. R. Jewett, *Arabic*.  
J. H. Ropes, *Divinity*.  
K. Lake, *Ecclesiastical History*.

**Associate Professors :**

I. L. Winter, *Public Speaking*.

**Assistant Professors :**

H. W. Foote, *Preaching and Parish Administration*.  
J. Ford, *Social Ethics*.  
R. F. Foerster, *Social Ethics*.

**Andover Professors :**

E. Y. Hineks, *Biblical Theology*.  
J. W. Platner, *Ecclesiastical History*.

**Andover Professors—Continued :**

D. Evans, *Systematic Theology*.  
W. R. Arnold, *Hebrew Language and Literature*.  
5 Assistants.

**THE FACULTY OF THE EPISCOPAL THEOLOGICAL SCHOOL.**

**Professors :**

M. Kelmer, *Literature and Interpretation of the Old Testament*.  
E. S. Drown, *Systematic Divinity*.  
H. B. Washburn, *Ecclesiastical History*.  
W. H. P. Hatch, *Literature and Interpretation of the New Testament*.

**Assistant Professors :**

J. E. Addison, *Religion and Missions*.  
N. B. Nash, *New Testament*.

**THE FACULTY OF ARCHITECTURE.**

**Professor :**

J. Sturgis Pray, *Landscape Architecture*.

**Associate Professors :**

J. S. Humphreys, *Architectural Design*.  
C. W. Killam, *Architectural Construction*.

**Assistant Professor :**

H. V. Hubbard, *Landscape Architecture*.  
3 Instructors.

**THE FACULTY OF LAW.**

**Professors :**

R. Pound, *General Jurisprudence*.  
E. Wambaugh, *Law*.  
J. H. Beale, *Law*.  
S. Williston, *Law*.  
H. M. Bates, *Law*.  
E. H. Warren, *Law*.  
Joseph Warren, *Law*.  
F. Frankfurter, *Law*.  
A. W. Scott, *Law*.  
C. Chafee, *Law*.

**Assistant Professor :**

M. O. Hudson, *Law*.  
F. B. Sayre, *Law*.

**THE FACULTY OF BUSINESS ADMINISTRATION.**

**Professors :**

W. B. Bonham, *Business Economics*.  
W. M. Cole, *Accounting*.  
O. M. W. Sprague, *Banking and Finance*.  
W. J. Cunningham, *Transportation*.  
L. F. Schaub, *Commercial Law*.  
G. B. Roorbach, *Foreign Trade*.

**Assistant Professors :**

R. T. Fisher, *Forestry*.  
J. M. Gries, *Lumbering*.  
M. T. Copeland, *Marketing*.  
2 Instructors and 1 Assistant.

**Post-Graduate Courses.**—Post-graduate instruction is given in Arts and Sciences, Architecture, Landscape Architecture, Engineering, Business Administration, Divinity, Law, Medicine, Dentistry, and in the Bussey Institution.

**Institutes, Museums, Learned Societies, etc.**

Astronomical Observatory. *Director*: (Vacant).

Blue Hill Meteorological Observatory. *Director*: A. McAdie.

Botanic Garden. *Director*: Oakes Ames.

Gray Herbarium. *Curator*: B. L. Robinson.

Peabody Museum of American Archeology and Ethnology. *Director*: C. C.

Willoughby.

The University Museum. *Director*: S. Henshaw.

Museum of Comparative Zoology. *Director*: S. Henshaw.

Peabody Museum. *Director*: C. C. Willoughby.

Semitic Museum. *Curator*: D. G. Lyon.

William Hayes Fogg Museum of Art. *Director*: E. W. Forbes.

Germanic Museum. *Curator (Hon.)*: K. Francke.

Social Museum. *Curator*: J. Ford.

Harvard University Press. *Director*: C. C. Lane.

The University Library contains over 1,856,900 volumes. *Director*: A. C. Coolidge.

The main collection and 43 special libraries are housed in the Harry Elkins Widener Memorial Library building.

There are also 11 departmental libraries.

**AFFILIATED INSTITUTIONS.**

Radcliffe College (for women), Cambridge, Mass.

*President*.—Le Baron R. Briggs, A.M., LL.D., Litt.D.

*Dean*.—Bertha May Moody, A.M.

*Secretary*.—Harriett D. Buckingham, A.M.

**PROFESSORS ON THE ACADEMIC BOARD.**

**FACULTY OF ARTS.**

W. S. Ferguson, *Ancient History*.

C. H. Grandgent, *Romance Languages*.

G. H. Kittredge, *English Literature*.

H. W. Smyth, *Greek Literature*.

H. S. White, *German*.

**FACULTY OF SCIENCE.**

G. P. Baxter, *Chemistry*.

E. H. Hall, *Physics*.

E. L. Mark, *Anatomy*.

**THE EPISCOPAL THEOLOGICAL SCHOOL, Cambridge, Mass. (1867.)**

*Terms*: Two, beginning in September and February. *Students*: 28.

Degrees conferred.—B.D., S.T.M., and D.D.

The hoods conform in pattern to the American intercollegiate system of academic costume. They are lined with white silk and have a chevron of scarlet.

**PROFESSORS.**

**FACULTY OF DIVINITY.**

**Professors:**

Rev. Max Kellner, *Literature and Interpretation of the Old Testament*.

Rev. E. S. Drown, *Systematic Divinity*.

Rev. H. B. Washburn, *Ecclesiastical History*.

**Assistant Professors:**

Rev. W. H. P. Hatch, *Literature and Interpretation of the New Testament*.

Rev. J. T. Addison, *History of Religions and Missions*.

Rev. N. B. Nash, *New Testament*.

R. G. Appel, *Church Music and Public Speaking*.

**Post-Graduate Courses.**—Instruction is provided for students who hold the degree of B.D., and who desire to become candidates for the degree of S.T.M. The requirements for the latter degree are:

One year of residence.

The completion with credit of four full courses of an advanced character, and  
The writing of a satisfactory thesis.

Two of the courses may be taken in Harvard University.

**Library.**—The Wright Memorial Library. *Librarian*: Miss E. D. Fuller.



**ANDOVER THEOLOGICAL SEMINARY**, Cambridge, Mass. (1807.)

Affiliated with Harvard University.

*Terms*: Two per year—September to June.

*Students*: 20 *Budget*: \$45,000.

*President*.—J. W. Platner.

**Degrees conferred**.—Bachelor of Sacred Theology.

**PROFESSORS.**

J. W. Platner, *Church History*.

D. Evans, *Christian Theology*.

W. R. Arnold, *Hebrew*.

W. L. Sperry (Associate Professor),

*Practical Theology*.

2 Lecturers.

**Library**.—The Andover-Harvard Theological Library, about 110,000 volumes and 60,000 pamphlets. *Librarian*: Owen H. Gates.

**CAPE TOWN (S. Africa).**

**UNIVERSITY OF CAPE TOWN**, Cape Town, South Africa.

Founded as the South African College, 1829.

Incorporated as the University of Cape Town, 1918.

The work of the University is at present carried on in the buildings of the former South African College and in those occupied until 1918 by the old University of the Cape of Good Hope. There are also two large residences for men students and one for women students.

Under its Act of Incorporation the University is to be transferred to the Groote Schuur Estate in the near vicinity of Cape Town, and the necessary buildings and residences are shortly to be erected there, the nucleus of the building fund consisting of the munificent donation amounting to £500,000 by the late Sir Julius Wernher, Bart., and Otto and Alfred Beit.

*Terms*: March to May (8 weeks); May to July (9 weeks); August to October (9 weeks); October to December (10 weeks).

*Students*: 805.

*Budget*: (1919) Revenue:

Government Grants	..	..	..	£31,866
Other sources	..	..	..	40,790

Total	..	..	..	£72,656
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Expenditure, £74,825.

**OFFICIALS.**

*Visitor*.—His Excellency the Governor-General. P.C., G.C.M.G.

*Chancellor*.—H.R.H. Edward, Prince of Wales, K.G., M.C.

*Vice-Chancellor*.—Principal J. C. Beattie, D.Sc., F.R.S.E.

*Registrar*.—W. G. R. Murray, M.A.

*President of Convocation*.—Advocate R. W. Close, K.C., B.A., LL.B., M.L.A.

**Degrees conferred**.—B.A., M.A., D.Litt., D.Phil., B.Sc., M.Sc., D.Sc., LL.B., LL.M., LL.D., M.B., Ch.B., Ch.M., M.D. (Degrees are not yet given in the Faculty of Medicine.)

**Hoods:**

Bachelors: a black stuff or silk gown, and black silk hood lined with white silk, and edged with silk of the colour distinctive of the degree.

Masters: a black stuff or silk gown, and black silk hood lined with silk of the colour distinctive of the degree and edged with white silk.

Doctors: a scarlet cloth gown, faced with silk of the colour distinctive of the degree.

*Distinctive colours*: Arts, blue; Engineering, green; Law, old gold; Medicine, red.



# PROFESSORS.

W. H. Bell, *Music*.  
 Rev. A. P. Bender, *Hebrew*.  
 J. Clark, *English*.  
 P. J. du Toit, *Dutch*.  
 R. Leslie, *Economics*.  
 W. S. Logeman, *German*.  
 R. D. Nauta, *French*.  
 H. A. Reyburn, *Philosophy*.  
 W. Ritchie, *Latin*.  
 E. A. Walker, *History*.  
 A. Ogg, *Physics*.  
 A. Young, *Geology*.  
 A. Brown, *Applied Mathematics*.  
 R. H. Compton, *Botany*.  
 L. Crawford, *Pure Mathematics*.  
 J. D. F. Gilchrist, *Zoology*.

T. P. Kent, *Pure Mathematics*.  
 E. Newbery, *Physical Chemistry*.  
 D. Thoday, *Botany*.  
 H. Tietz, *Organic Chemistry*.  
 R. R. B. Howes, *Law*.  
 F. Clarke, *Education*.  
 J. A. Gunn, *Pharmacology*.  
 M. R. Drennan, *Anatomy*.  
 W. A. Jolly, *Physiology*.  
 T. J. Mackie, *Bacteriology*.  
 E. C. Crichton, *Obstetrics*.  
 H. Bohle, *Electrotechnics*.  
 A. E. Snape, *Civil Engineering*.  
 D. McMillan, *Mechanical Engineering*.

50 Lecturers and Assistants.

The following chairs are at present vacant: *Greek, Inorganic Chemistry, Medicine, Surgery, Pathology*.

**Post-Graduate Courses.**—Courses are provided for the degrees of Master and Doctor in the Faculties of Arts, Science, Law, and Engineering.

**Museums.**—Bolus Herbarium and Library, bequeathed to the University in 1911 by the late Dr. Harry Bolus, F.L.S. *Curator*: Mrs. F. Bolus, B.A. Pathological Museum presented by the Government.

## Library.—

University Library, about 20,000 volumes.

*Librarian (Hon.)*: Prof. W. S. Logeman, L.H.C.

*Librarian's Assistant*: S. L. Harvey.

## SOUTH AFRICAN MUSEUM, Cape Town.

The Museum was incorporated by Act of Parliament in 1857. It includes an Annex—the Koopmans de Wet House—which is devoted to the display of articles in use by Colonists between the time of the first occupation of the Cape by the Dutch and the year 1830. The Museum itself is a Natural History Museum, and issues a publication, *Annals of the South African Museum*, which is devoted to original papers on Zoology, Botany, Geology, Paleontology, Anthropology, and Early Colonial History, and appears in parts. Eleven complete volumes have been issued, and six others are nearly completed.

## OFFICIALS.

*Director*.—L. Peringuey, D.Sc., F.E.S., F.Z.S.

*Assistant Director, in charge of Paleontological Collections*.—S. H. Haughton, B.A., F.G.S.

*Hon. Curator of Geological Collections*.—A. L. Hall, B.A., F.G.S.

*Hon. Curator of Koopman de Wet House*.—W. F. Purcell, Ph.D.

*Assistant in charge of Marine Zoological Collections*.—K. H. Barnard, M.A.

*Assistant in Charge of Land Invertebrates*.—R. W. E. Tucker, B.A.

*Clerk and Librarian*.—R. M. Lightfoot, F.E.S.

**ROYAL OBSERVATORY, Cape of Good Hope, Cape Town, S. Africa. (1820.)**

*Budget*: £9,885.

*H.M. Astronomer*.—S. S. Hough, M.A., F.R.S.

*Chief Assistant*.—J. K. E. Halm.

*Secretary*.—A. Pilling.

4 Assistants and 7 junior Assistants.

## LEARNED SOCIETIES, ETC.

**The Van Riebeeck Society** for the publication of South African Historical Documents. (1918.)

*President*.—Rt. Hon. J. X. Merriman, M.L.A., P.C., LL.D.

*Secretary and Treasurer*.—A. C. G. Lloyd, B.A.

Publishes Annual Volume.

**CARDIFF ("PRIFYSGOL CYMRU").****THE UNIVERSITY OF WALES**, Cardiff, Wales. (1893.)*Students* (1918-19): About 1,600.**OFFICIALS.***Chancellor*.—H.M. The King.*Deputy Chancellors*.—

The Right Hon. The Lord Keynon, K.C.V.O.

Major David Davies, M.A., M.P., LL.D.

*Vice-Chancellor*.—Principal Sir H. R. Reichel, M.A., LL.D.*Warden of the Guild of Graduates*.—Prof. Sir J. Morris Jones, M.A.*Treasurer*.—T. Tolin, M.A., J.P.*Dean of Divinity*.—Principal O. Pyrs, M.A.*Registrar*.—J. M. Angus, M.A.**Degrees conferred**.—B.A., M.A., D.Litt., D.Phil., B.Sc., M.Sc., D.Sc., B.Mus., M.Mus., D.Mus., LL.B., LL.M., LL.D., B.D., D.D., M.B., B.Ch., M.Ch., M.D.

Bachelors' Hoods are of the Oxford form; Masters' and Doctors' Hoods are of the Cambridge form. Bachelors' Hoods are made of black stuff or silk, except in the Faculty of Music in which the Hoods are made of dark blue silk. Masters' Hoods are made of black silk, and Doctors' Hoods of scarlet cloth. Bachelors' Hoods are bordered, and Masters' and Doctors' Hoods lined with silk of the colours proper to their respective Faculties.

The colours proper to the respective Faculties are:

The Faculty of Arts: Mazarin blue shot with green.

The Faculty of Science: Bronze colour (yellow shot with black).

The Faculty of Music: Pear colour (a shot silk of three hues).

The Faculty of Law: Red shot with purple.

The Faculty of Theology: Mazarin blue shot with red.

The Faculty of Medicine: Green shot with black, edged with white.

**Professors**.—The University has no teaching staff. The teaching is done by the Staffs of the Constituent Colleges.

**Libraries**.—The University has no Library. The Colleges have their Libraries separately.

**AFFILIATED INSTITUTIONS.**

The University is a federal University made up of the Constituent (University) Colleges at Aberystwyth, Bangor and Cardiff. The addition of another Constituent College at Swansea is under consideration. In the Faculty of Theology, which the Constituent Colleges are precluded by their Charters from teaching, the following Theological Colleges are Associated Colleges: The Theological College, Aberystwyth; The Theological College, Bala; The Memorial College, Brecon; The Joint School of Theological Studies, Bangor; The Presbyterian College, Carmarthen; The Baptist College, Cardiff.

**THE UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE.**

Cathays Park and Newport Road, Cardiff. (1884.)

*Terms*: Three per year.*Students* (1919): 835.*Budget*:

Income .. .. . £28,786 2s. 11d.

Expenditure .. .. . £32,561 10s. 8d.

**OFFICIALS.***Principal*.—A. H. Trow, D.Sc., F.L.S.*President*.—The Right Hon. Lord Glanely.*Vice-Presidents*.—

The Right Hon. Lord Aberdare.

The Right Hon. Lord Pontypridd.

The Right Hon. The Earl of Plymouth.

*Treasurer*.—Alderman Herbert M. Thompson, M.A.*Registrar*.—D. J. A. Brown.**Degrees and Hoods**.—The Degrees and Hoods of the University of Wales.

# PROFESSORS.

F. Bacon, *Engineering*.  
 Paul Barbier, *French*.  
 H. Bruce, *History*.  
 A. H. Cox, *Geology*.  
 E. Emrys - Roberts, *Pathology and Bacteriology*.  
 David Evans, *Music*.  
 B. Foxley (Miss), *Elementary Training Department (Women)*.  
 W. J. Gruffydd, *Celtic*.  
 J. B. Bayeraft, *Physiology*.  
 D. Hepburn, *Anatomy*.  
 H. J. W. Hetherington, *Logic and Philosophy*.

H. Littledale, *English Language and Literature*.  
 G. Norwood, *Greek*.  
 W. N. Parker, *Zoology*.  
 W. Phillips, *Education*.  
 R. H. Pinkerton, *Pure and Applied Mathematics*.  
 A. A. Read, *Metallurgy*.  
 W. J. Roberts, *Economics and Political Science*.  
 A. L. Selby, *Physics*.  
 C. M. Thompson, *Chemistry*.  
 R. C. McLean, *Botany*.  
 G. A. T. Davies, *Latin*.

33 Lecturers.

**Post-Graduate Courses.**—Provision is made for Research in practically all departments, and aid is specially encouraged by means of College Scholarships and University Post-Graduate Studentships and Fellowships.

*Librarian* : S. O. Moffet, M.A. *Assistant Librarian* : Miss G. Mughes.

# AFFILIATED INSTITUTIONS.

There are Joint Diploma Courses with:  
 The Technical College, Cardiff, and  
 The South Wales and Monmouthshire School of Mines, Treforest.

**THE CARDIFF MEDICAL SOCIETY, Y.M.C.A. Buildings, Queen Street, Cardiff.**

*President*.—W. Sheen.

*Vice-Presidents*.—W. Mitchell Stevens, F. P. S. Cresswell.

*Treasurer*.—D. R. Paterson.

*Librarian*.—Herbert T. Evans.

*Secretaries*.—Erie Evans, J. O. D. Wade.

**CASE SCHOOL OF APPLIED SCIENCE.** See CLEVELAND.

# CAWNPORE.

**CHRIST CHURCH COLLEGE, Cawnpore.**

Affiliated to the University of Allahabad.

*Terms* : July to April.

*Students* : 150.

# OFFICIALS.

*Principal*.—Rev. M. S. Douglas, M.A.

*Vice-Principal*.—Rev. E. W. Ormerod, M.A.

8 Lecturers.

**Post-Graduate Courses** in Philosophy for the M.A. degree.

**Library**.—The College Library is under the charge of Mr. S. C. Chatterji.

# CHAPEL HILL (N. Carolina).

**THE UNIVERSITY OF NORTH CAROLINA, Chapel Hill, North Carolina. (1789.)**

*Terms* : Three terms of 11 weeks each, and one of 6 weeks.

*Students* : 1,600.

*Budget* : \$350,000.

# OFFICIALS.

*President*.—Harry W. Chase, Ph.D.

*Registrar*.—Thomas J. Wilson, Jr., Ph.D.

**Degrees conferred**.—A.B., S.B., A.B., LL.B., S.B. in Med., Ph.G., Ph.C., P.D. A.M., S.M., Ph.D. (All these are degrees in course). Honorary.—LL.D., D.D., L.H.D.

## PROFESSORS.

## COLLEGE OF LIBERAL ARTS.

- W. D. Toy, *German*.  
 H. H. Williams, *Philosophy*.  
 G. Howe, *Latin*.  
 C. L. Raper, *Economics*.  
 J. G. de R. Hamilton, *History*.  
 H. McG. Wagstaff, *History*.  
 W. M. Dey, *Romance Languages*.  
 E. Greenlaw, *English*.  
 E. C. Branson, *Rural Economics and Sociology*.  
 F. H. Koch, *Dramatic Literature*.  
 D. De Witt Carroll, *Economics*.  
 W. S. Bernard, *Greek*.  
 G. McF. McKie, *Public Speaking*.  
 J. M. Booker, *English*.  
 O. Towles, *Romance Languages*.  
 K. J. Brown, *German*.  
 N. Foerster, *English*.  
 J. H. Hanford, *English*.  
 W. W. Pierson, *History*.  
 S. E. Leavitt, *Romance Languages*.  
 N. M. Paull, *Drawing*.  
 G. K. G. Henry, *Latin*.  
 H. McC. Dargan, *English*.  
 C. A. Hibbard, *English*.  
 G. A. Harrer, *Latin*.  
 H. Staab, *Romance Languages*.  
 F. P. Graham, *History*.  
 R. B. Cowin, *Accounting*.  
 P. J. Weaver, *Music*.

## SCHOOL OF SCIENCE.

- F. P. Venable, *Chemistry*.  
 W. Cain, *Mathematics*.  
 H. Van P. Wilson, *Zoology*.  
 C. Cobb, *Geology and Mineralogy*.  
 J. H. Pratt, *Economic Geology*.  
 W. C. Coker, *Botany*.  
 A. Henderson, *Pure Mathematics*.

## School of Science—Continued:

- A. H. Patterson, *Physics*.  
 J. F. Dashiell, *Psychology*.  
 A. S. Wheeler, *Organic Chemistry*.  
 J. M. Bell, *Physical Chemistry*.  
 W. F. Prouty, *Geology*.  
 J. T. Dobbins, *Chemistry*.  
 J. W. Lasley, *Mathematics*.  
 W. W. Rankin, *Mathematics*.  
 A. W. Hobbs, *Mathematics*.

## SCHOOL OF APPLIED SCIENCE.

- (Vacant), *Civil Engineering*.  
 P. H. Daggett, *Electrical Engineering*.  
 J. H. Mustard, *Electrical Engineering*.  
 J. E. Lear, *Engineering Science*.  
 T. F. Hickerson, *Civil Engineering*.  
 T. Saville, *Sanitary Engineering*.

## SCHOOLS OF MEDICINE AND PHARMACY.

- C. S. Mangum, *Anatomy*.  
 E. V. Howell, *Pharmacy*.  
 I. H. Manning, *Physiology*.  
 W. De B. MacNider, *Pharmacology*.  
 J. B. Bullitt, *Histology and Pathology*.  
 B. R. Lawson, *Anatomy*.  
 J. G. Beard, *Pharmacy*.

## SCHOOL OF LAW.

- P. H. Winston, *Law*.  
 L. P. McGehee, *Law*.  
 A. C. McIntosh, *Law*.  
 O. O. Efrid, *Law*.

## SCHOOL OF EDUCATION.

- M. C. S. Noble, *Pedagogy*.  
 N. W. Walker, *Secondary Education*.  
 L. A. Williams, *School Administration*.  
 E. W. Knight, *Rural Education*.  
 17 Instructors.

Post-Graduate Courses leading to the degrees of A.M., S.M., Ph.D., Ph.C., and P.D. are offered.

## Institutes and Learned Societies.—

- The Elisha Mitchell Scientific Society.  
 The North Carolina Historical Society.  
 The Philological Club.  
 American Institute of Electrical Engineers (The University of North Carolina Branch).

Library.—The University Library. Librarian: L. R. Wilson, Ph.D.

## CHARLOTTESVILLE (Virginia).

UNIVERSITY OF VIRGINIA. No particulars received.

## CHARTERS TOWERS (Queensland).

**CHARTERS TOWERS SCHOOL OF MINES**, Charters Towers, Queensland. (1901.)

The School is a sub-department of the Department of Mines, and is entirely a Government institution; the Director being responsible to the Under-Secretary for Mines (resident in Brisbane).

A public Assay Laboratory is connected with the School. In this assays for prospectors are made free of charge.

*Terms* : Three per year. *Students* : Varies between 40 and 120.

*Budget* : £3,000 to £4,000 per annum supplied by the Department of Mines of Queensland.

### OFFICIALS.

*Director*.—H. I. McGilhiray, M.A.

*Secretary*.—J. F. Horrigan.

**Degrees conferred**.—The Diplomas in Mining Engineering and Metallurgical Engineering (Associate Courses), Metallurgical Chemistry and Assaying, and Mining Surveying.

### LECTURERS.

H. I. McGilhiray, *Geology, Mineralogy, and Mining Geology.*

J. D. Cunningham, *Mining, Ore Dressing, Surveying, and Mechanical Drawing.*

J. A. Hughes, *Chemistry, Metallurgy, and Assaying.*

A. R. Wright, *Physics, Mechanics, Mechanical and Electrical Engineering.*

1 Assistant Lecturer, 1 Demonstrator, 1 Assayer.

**Post-Graduate Course**.—A course in steel analysis is taken as required.

**Library**.—The School Library also serves as a reference library for the City of Charters Towers. *Librarian* : J. R. Horrigan.

## CHICAGO (Illinois).

**THE UNIVERSITY OF CHICAGO**, Chicago, Illinois. (1891.)

*Terms* : Three per year.

*Students* : 6,248 (1917-18.)

*Budget* : \$2,100,912. 16. (1917-18.)

### OFFICIALS.

*President*.—Harry Pratt Judson.

*Recorder and Examiner*.—Walter A. Payne.

*Secretary to the President*.—David A. Robertson.

*Secretary of the Board Trustees*.—J. Spencer Dickerson.

*Counsel and Business Manager*.—Wallace Heckman.

*Auditor*.—Trevor Arnett.

*Director of the University Libraries*.—Ernest DeWitt Burton.

*Dean of the Faculties of Arts, Literature, and Science*.—J. Rowland Angell.

*Dean of the Divinity School*.—Shailer Mathews.

*Dean of the Law School*.—J. Parker Hall.

*Dean of the Medical Students*.—J. Milton Dodson.

*Dean of the Graduate School of Arts, Literature, and Science*.—Albion W. Small.

*Dean of the Junior Colleges*.—Robert Morss Lovett.

*Director of School of Education*.—Chas. H. Judd.

*Dean of School of Commerce and Administration*.—Leon C. Marshall.

*Dean of Ogden Graduate School of Science*.—Rollin D. Salisbury.

**Degrees conferred**.—A.B., Ph.B., S.B., A.B. in Education, Ph.B. in Education, S.B. in Education, LL.B., J.D., B.D., M.D., A.M., S.M., Ph.D.

*Hoods* : Black with maroon lining, given with Ph.D. degree only.



## PROFESSORS.

## FACULTY OF ARTS, LITERATURE AND, SCIENCE.

## Professors :

- J. R. Angell, *Psychology*.  
 E. E. Barnard, *Astronomy*.  
 H. H. Barrows, *Geography*.  
 C. R. Baskervill, *English*.  
 E. S. Bastin, *Economic Geology*.  
 C. H. Beeson, *Latin*.  
 G. A. Bliss, *Mathematics*.  
 R. J. Bonner, *Greek*.  
 J. H. Breasted, *Egyptology and Oriental History*.  
 C. D. Buck, *Comparative Philology*.  
 T. C. Chamberlain, *Geology and Paleontology*.  
 C. M. Child, *Zoology*.  
 A. Coleman, *French*.  
 J. M. Coulter, *Botany*.  
 H. C. Cowles, *Plant Ecology*.  
 S. W. Cutting, *Germanic Languages and Literatures*.  
 E. P. Dargan, *French Literature*.  
 L. E. Dickson, *Mathematics*.  
 W. E. Dodd, *American History*.  
 Ellsworth Faris, *Sociology*.  
 J. A. Field, *Political Economy*.  
 E. B. Frost, *Astrophysics*.  
 H. G. Gale, *Physics*.  
 J. P. Goode, *Geography*.  
 G. E. Hale, *Astrophysics*.  
 W. D. Harkins, *Chemistry*.  
 R. Herrick, *English*.  
 T. A. Jenkins, *History of the French Language*.  
 A. Jonannsen, *Petrology*.  
 G. J. Laing, *Latin*.  
 F. R. Lillie, *Zoology*.  
 J. W. Linn, *English*.  
 R. M. Lovett, *English*.  
 J. M. Manly, *English*.  
 H. E. Marr (Colonel), *Military Science and Tactics*.  
 G. H. Mead, *Philosophy*.  
 C. E. Merriam, *Political Science*.  
 E. T. Merrill, *Latin*.  
 A. A. Michelson, *Physics*.  
 F. J. Miller, *Latin*.  
 R. A. Millikan, *Physics*.  
 H. A. Millis, *Political Economy*.  
 A. W. Moore, *Philosophy*.  
 E. H. Moore, *Mathematics*.  
 F. R. Moulton, *Astronomy*.  
 G. W. Myers, *Mathematics and Astronomy*.  
 W. D. MacClintock, *English Literature*.  
 A. C. McLaughlin, *History*.  
 H. H. Newman, *Zoology and Embryology*.  
 W. A. Nitze, *Romance Languages and Literature*.  
 G. T. Northup, *Spanish Literature*.

## Associate Professors :

- K. Pietsch, *Romance Philology*.  
 H. W. Prescott, *Classical Philology*.  
 I. M. Price, *Semitic Languages and Literature*.  
 O. Read, *History*.  
 M. Reynolds (Miss), *English Literature*.  
 R. D. Salisbury, *Geographic Geology*.  
 F. Schevill, *Modern History*.  
 M. Schutze, *German Literature*.  
 P. Shorey, *Greek*.  
 H. E. Slaught, *Mathematics*.  
 A. W. Small, *Sociology*.  
 A. A. Stagg, *Physical Culture*.  
 J. Stieglitz, *Chemistry*.  
 M. Talbot (Miss), *Household Administration*.  
 B. F. Terry, *English History*.  
 J. W. Thompson, *Medieval History*.  
 A. H. Tolman, *English Literature*.  
 J. H. Tufts, *Philosophy*.  
 S. Weller, *Paleontologic Geology*.  
 E. J. Wilczynski, *Mathematics*.  
 E. H. Wilkins, *Romance Languages*.  
 W. C. Wilkinson, *Poetry and Criticism*.  
 F. A. Wood, *Germanic Philology*.  
 C. W. Wright, *Political Economy*.  
 T. Iyenaga, *Political Science*.  
 L. Taft, *History of Art*.  
 P. S. Allen, *German Literature*.  
 E. S. Ames, *Philosophy*.  
 S. E. W. Bedford, *Sociology*.  
 K. Blunt (Miss), *Food Chemistry, Home Economics*.  
 P. H. Boynton, *English*.  
 H. A. Carr, *Psychology*.  
 C. F. Castle, *Greek*.  
 R. T. Chamberlin, *Geology*.  
 J. M. Clark, *Political Economy*.  
 S. H. Clark, *Public Speaking*.  
 W. E. Clark, *Sanskrit and Indo-European Comparative Philology*.  
 W. Crocker, *Plant Physiology*.  
 T. P. Cross, *English and Celtic*.  
 H. C. E. David, *French Literature*.  
 W. F. Dodd, *Political Science*.  
 G. Dudley (Miss), *Physical Culture*.  
 E. F. Flint (Mrs.), *English*.  
 C. Goettsch, *Germanic Philology*.  
 G. C. Howland, *History of Literature*.  
 M. W. Jernegan, *History*.  
 W. J. G. Land, *Botany*.  
 K. Laves, *Astronomy*.  
 A. C. Lunn, *Applied Mathematics*.  
 W. D. MacMillan, *Astronomy*.  
 G. L. Marsh, *English*.  
 H. G. Moulton, *Political Economy*.  
 J. A. Parkhurst, *Practical Astronomy*.  
 D. B. Reed, *Physical Culture*.  
 D. A. Robertson, *English*.  
 H. I. Schlesinger, *Chemistry*.

**Associate Professors—Continued :**

- F. Starr, *Anthropology*.  
E. Wallace (Miss), *French Literature*.  
J. W. A. Young, *Pedagogy of Mathematics*.

**Assistant Professors :**

- R. Altrocchi, *Romance Languages*.  
S. B. Barrett, *Astrophysics*.  
G. Van Biesbroeck, *Astronomy*.  
S. P. Breckinridge (Miss), *Social Economy*.  
J. H. Bretz, *Geology*.  
E. W. Burgess, *Sociology*.  
C. C. Colby, *Geography*.  
J. W. E. Glattfeld, *Chemistry*.  
C. N. Gould, *German and Scandinavian Literature*.  
H. E. Gronow, *German*.  
S. N. Harper, *Russian Language and Institutions*.  
J. R. Hulbert, *English*.  
C. F. Huth, *History*.  
W. D. Jones, *Geography*.  
L. I. Knight, *Botany*.  
T. A. Knott, *English*.  
J. J. Meyer, *German*.  
T. L. Neff, *French*.  
B. C. Nelson, *Public Speaking*.  
A. C. Noe, *German Literature*.  
C. E. Parmenter, *Romance*.  
E. M. Terry (Miss), *Chemistry*.  
G. L. Wendt, *Chemistry*.  
N. W. Barnes, *Political Economy*.  
W. J. Crozier, *Zoology*.  
A. J. Dempster, *Physics*.  
G. D. Fuller, *Botany*.  
Carl H. Grabo, *English*.  
H. B. Lemon, *Physics*.  
J. C. Lewis (Major), *Military Science and Tactics*.  
I. J. Lingle, *Physiology*.  
B. H. Nicolet, *Chemistry*.  
F. L. Schoell, *Romance*.  
A. P. Scott, *History*.  
G. W. Sherburn, *English*.  
W. H. Spencer, *Business Law*.  
D. H. Stevens, *English*.  
G. Van Biesbroeck, *Practical Astronomy*.  
P. T. Vance (Captain), *Military Science and Tactics*.  
J. Viner, *Political Economy*.  
R. T. Wiltbank, *Psychology*.

**SCHOOL OF MEDICINE.**

**Professors :**

- R. R. Bensley, *Anatomy*.  
F. Billings, *Medicine*.  
A. J. Carlson, *Physiology*.  
B. C. H. Harvey, *Anatomy*.  
L. Hektoen, *Pathology*.  
C. J. Herrick, *Neurology*.  
E. O. Jordan, *Bacteriology*.

**Professors—Continued :**

- P. Kyes, *Preventive Medicine*.  
D. D. Lewis, *Surgery*.  
H. G. Wells, *Pathology*.  
A. D. Bevan, *Surgery*.  
J. M. Dodson, *Medicine*.  
W. S. Haines, *Toxicology*.

**Associate Professors :**

- F. C. Koch, *Physiological Chemistry*.  
A. B. Luckhardt, *Physiology*.

**Assistant Professors :**

- G. W. Bartelmez, *Anatomy*.  
E. Clark, *Anatomy*.  
L. M. De Witt (Mrs.), *Pathology*.  
K. K. Koessler, *Experimental Medicine*.  
J. F. Norton, *Bacteriology*.  
C. H. Swift, *Anatomy*.  
S. Tashiro, *Physiological Chemistry*.  
A. L. Tatum, *Pharmacology and Physiology*.

**DIVINITY SCHOOL.**

**Professors :**

- E. D. Burton, *New Testament and Early Christian Literature*.  
S. J. Case, *Early Church History and New Testament Interpretation*.  
E. J. Goodspeed, *Biblical and Patristic Greek*.  
F. W. Gunsaulus, *Practical Theology*.  
E. G. Hirsch, *Rabbinical Literature and Philosophy*.  
S. Mathews, *Historical and Comparative Theology*.  
G. B. Smith, *Christian Theology*.  
J. M. P. Smith, *Old Testament Language and Literature*.  
T. G. Soares, *Homiletics and Religious Education*.  
C. W. Votaw, *Biblical Greek*.  
H. L. Willett, *Semitic Languages and Literatures*.

**Associate Professors :**

- J. M. Artman, *Religious Education*.  
D. D. Luckenbill, *Oriental Languages and Literatures*.

**Assistant Professors :**

- F. M. Blanchard, *Public Speaking*.  
P. G. Mode, *Church History*.  
F. Merrifield, *New Testament History and Interpretation*.  
M. Sprengling, *Semitic Languages and Literatures*.

**SCHOOL OF LAW.**

**Professors :**

- H. P. Judson, *International Law and Diplomacy*.  
H. A. Bigelow, *Law*.  
E. Freund, *Jurisprudence and Public Law*.  
J. P. Hall, *Law*.

**Professors—Continued :**

E. W. Hinton, *Law*.  
J. W. Mack, *Law*.  
F. R. Mechem, *Law*.  
H. Oliphant, *Law*.  
F. C. Woodward, *Law*.

**SCHOOL OF EDUCATION.**
**Professors :**

R. M. Tryon, *Teaching of History*.  
N. Butler, *Education*.  
C. H. Judd, *Education*.  
H. C. Morrison, *School Administration*.  
S. C. Parker, *Education*.  
W. Sargent, *Art Education*.

**Associate Professors :**

Z. Baber (Miss), *Geography and Geology*.  
E. R. Downing, *Natural Science*.  
F. N. Freeman, *Educational Psychology*.  
W. S. Gray, *Education*.  
R. L. Lyman, *Teaching of English*.  
H. O. Rugg, *Education*.  
J. F. Bobbitt, *School Administration*.

**Assistant Professors :**

F. S. Breed, *Education*.  
C. C. Colburn (Miss), *Institution Economics*.  
A. Temple (Miss), *Kindergarten Education*.  
W. G. Whitford, *Æsthetic and Industrial Education*.  
E. T. Filby, *Industrial Education*.  
M. F. McAuley (Miss), *Institution Economics*.  
Lydia J. Roberts (Miss), *Home Economics*.  
M. B. Trilling (Miss), *Home Economics*.

**SCHOOL OF COMMERCE AND ADMINISTRATION.**
**Professors :**

L. C. Marshall, *Political Economy*.  
G. E. Frazer, *Accounting*.

**Assistant Professors :**

N. W. Barnes, *Commercial Organization*.  
C. S. Duncan, *Commercial Organization*.

**Post-Graduate Courses.**—The Graduate Schools of Arts, Literature, and Science afford courses of instruction leading to the degree of Master of Arts or of Science, and to the Degree of Doctor of Philosophy.

In the Graduate School of Arts and Literature are the advanced courses offered by the Departments of Philosophy, Psychology, Education, Political Economy, Commerce and Administration, Political Science, History, Sociology and Anthropology, Household Administration, the Oriental Languages and Literatures, New Testament and Early Christian Literature, Comparative Philology, the Greek Language and Literature, the Latin Language and Literature, the Romance Languages and Literatures, the Germanic Languages and Literatures, English and General Literature.

In the Ogden Graduate School of Science are the advanced courses offered by the Departments of Mathematics, Astronomy and Astrophysics, Physics, Chemistry, Geology and Paleontology, Geography, Zoology, Anatomy, Physiology, Physiological Chemistry and Pharmacology, Botany, Pathology, and Hygiene and Bacteriology.

**Museums.—**

The Walker and Julius Rosenwald Museums (Geology, Mineralogy, Anthropology and Paleontology).

The Haskell Oriental Museum (Biblical, Comparative Religion, Assyrian and Egyptian collections). *Director* : J. H. Breasted, Ph.D.

**Libraries.—**

William Rainey Harper Memorial Library Building.  
The General Library.  
Departmental and Professional Libraries.

The Libraries contain 545,890 books and about 200,000 pamphlets. *Director* : E. De Witt Burton. *Associate Director* : James C. M. Hanson.

**NORTH WESTERN UNIVERSITY.** No particulars received.

**RUSH MEDICAL COLLEGE.** No particulars received.

**COLLEGE OF PHYSICIANS AND SURGEONS.** See URBANA, UNIVERSITY OF (ILLINOIS).

**CENTRAL STATES COLLEGE OF PHARMACY, Chicago, Illinois. (1908.)**

*Terms:* Three per year.

*Students:* 100.

**OFFICIALS.**

*President.*—George Louis Secord.

*Dean.*—Roland Hodge Phillips.

*Secretary.*—Walther F. von Zelinski.

*Registrar.*—Grace Ward Secord.

*President of Board of Trustees.*—J. De Witte Leek.

**PROFESSORS.**

G. L. Secord.

R. H. Phillips.

W. F. von Zelinski.

B. H. Rouse.

A. W. Wheeler.

Thomas A. Carter.

G. Ward Secord (Mrs.).

H. A. Caperton.

J. F. Forbes.

4 Special Lecturers.

College Library of about 400 volumes.

**ARMOUR INSTITUTE OF TECHNOLOGY.** No particulars received.

**ART INSTITUTE OF CHICAGO, Michigan Avenue, Chicago. (1879.)**

The Art Institute School, the largest in America, holds day, evening, and Saturday classes. Juvenile Classes are held each Saturday.

*Terms:* Three per year.

*Students:* 2,041.

**OFFICIALS.**

*President.*—Charles L. Hutchinson.

*Vice-Presidents.*—Martin A. Ryerson, Frank G. Logan.

*Treasurer.*—Ernest A. Hamill.

*Secretary.*—William F. Tuttle.

*Director of Museum and School.*—George W. Eggers.

*Registrar.*—Fanny J. Kendall.

*Librarian.*—Sarah L. Mitchell.

*Head of Design Department.*—Hermann Rosse.

*Head of Normal Department.*—Jeannette Buckley.

*Head of Sculpture Department.*—Albin Polasek.

*Heads of Painting Department.*—Ralph Clarkson, Karl A. Buchr, Wellington Reynolds.

*Heads of Illustration Department.*—De Forrest Schook, Allen E. Philbrick, Richard E. Babcock.

*Head of Mural Decoration Department.*—John N. Norton.

Certificate of attainment given at the completion of a 3 years' course. School Museum in school building.

**Libraries.**—

The Ryerson Library of the Art Institute of Chicago (1879) is devoted to works on fine art. It contains 13,000 volumes, collections of 36,500 photographs, and 19,180 lantern slides.

The Burnham Library, kept in the Ryerson Library, contains 2,400 volumes. The Library is open daily from 9 to 5, Sundays from 2 to 8, with an attendance for the year 1918 of 62,694 students and consulting visitors.

**FIELD MUSEUM OF NATURAL HISTORY, Chicago, Illinois. (1894.)**

**OFFICIALS.**

*Director.*—Frederick J. V. Skiff.

*Recorder.*—D. C. Davies.

**Department of Anthropology.**

*Curator.*—Berthold Laufer.

*Assistant Curator Physical Anthropology and Malayan Ethnology.*—Fay Cooper Cole.

*Assistant Curator of African and Melanesian Ethnology.*—Albert B. Lewis.

*Assistant Curator of Mexican and South American Archeology.*—J. Alden Mason.

*Assistant Curator of Japanese Ethnology.*—Helen C. Gunsaulus.



# Department of Botany.

*Curator.*—Charles F. Millsbaugh.

*Assistant Curator Economic Botany.*—B. E. Dahlgren.

# Department of Geology.

*Curator.*—Oliver C. Farrington.

*Assistant Curator.*—H. W. Nichols.

*Assistant Curator of Paleontology.*—Elmer S. Riggs.

# Department of Zoology.

*Curator.*—Charles B. Cory.

*Assistant Curator of Mammalogy and Ornithology.*—W. H. Osgood.

*Assistant Curator Division of Entomology.*—W. J. Gerhard.

*Assistant Curator Division of Osteology.*—E. N. Gueret.

*Assistant Curator Division of Ichthyology and Herpetology.*—Carl L. Hubbs.

*Assistant Curator Division of Oology.*—R. Magoon Barnes.

**Library,** 50,000 volumes. *Librarian:* Elsie Lippincott.

## CHRISTCHURCH (New Zealand).

**CANTERBURY COLLEGE,** Christchurch, New Zealand. (1873.)

An affiliated Institution of New Zealand University (*q.v.*).

*Terms:* Three a year.

**OFFICIALS.** See NEW ZEALAND UNIVERSITY.

**Degrees conferred.** See NEW ZEALAND UNIVERSITY.

## PROFESSORS.

### Professors:

H. Stewart, *Classics.* [*Philosophy.*

J. P. Gabbutt, *Mathematics and Natural*

W. P. Evans, *Chemistry.*

R. J. Scott, *Engineering.*

T. G. R. Blunt, *Modern Languages.*

C. Chilton, *Biology.* [*turc.*

A. Wall, *English Languages and Litera-*

J. Hight, *Economics and History.*

C. C. Farr, *Physics.*

C. F. Salmond, *Mental and Moral*  
*Philosophy.*

### Lecturers:

R. Speight, *Geology, Palaeontology and*  
*Physical Geography.*

T. A. Murphy, *Jurisprudence and Law.*

J. C. Bradshaw, *Music.*

T. S. Foster, *Education.*

P. H. Powell, *Electrical Engineering.*

W. F. Robinson, *Surveying, Borough*  
*Engineering, and Building Con-*  
*struction.*

S. Steele, *Mechanical Engineering.*

7 Assistants, 5 Demonstrators.

## CINCINNATI (Ohio).

**UNIVERSITY OF CINCINNATI.** No particulars received.

## CLEMSON COLLEGE (S. Carolina).

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—H. W. Barre.

## CLEVELAND (Ohio).

**WESTERN RESERVE UNIVERSITY,** Cleveland, Ohio. (1826.)

The School of Medicine and the School of Law are graduate schools, a somewhat unique condition in American professional schools.

*Terms:* Two semesters per year.

*Students:* 4,145.

*Budget:* \$600,000.

## OFFICIALS.

*President.*—Charles F. Thwing, D.D., LL.D., Litt.D.

*Vice-President of Western Reserve University.*—Samuel Mather, A.M., LL.D.

*Vice-President of Adelbert College of Western Reserve University.*—James D. Williamson,  
A.M., D.D.

*Secretary and Treasurer.*—Sidney S. Wilson, A.B.

*Executive Secretary.*—Ralph W. Bell, A.B.

**Degrees conferred.**—A.B., A.M., B.S., A.M. in Medicine, LL.B., Ph.C., M.D., Doctor  
of Dental Surgery, Graduate in Pharmacy.



## PROFESSORS.

## SCHOOL OF MEDICINE.

## Professors :

- G. C. Ashmun, *Medical Jurisprudence and Medical Ethics*.  
 W. T. Corlett, *Dermatology*.  
 W. E. Bruner, *Ophthalmology*.  
 F. E. Bunts, *Principles of Surgery and Clinical Surgery*.  
 G. W. Crile, *Surgery*.  
 H. J. Gerstenberger, *Pediatrics*.  
 C. A. Hamann (Dean), *Applied Anatomy and Clinical Surgery*.  
 C. F. Hoover, *Medicine*.  
 W. H. Humiston, *Gynecology*.  
 H. T. Karsner, *Pathology*.  
 R. G. Perkins, *Hygiene and Preventive Medicine*.  
 J. P. Sawyer, *Therapeutics and Clinical Medicine*.  
 T. Sollmann, *Pharmacology and Materia Medica*.  
 G. N. Stewart, *Experimental Medicine*.  
 T. W. Todd, *Anatomy*.  
 F. C. Waite, *Histology and Embryology*.  
 C. J. Wiggers, *Physiology*.

## Associate Professors :

- A. H. Bill, *Obstetrics*.  
 C. E. Briggs, *Surgery*.  
 E. P. Carter, *Medicine*.  
 N. W. Ingalls, *Anatomy*.  
 J. M. Ingersoll, *Otology, Rhinology, and Laryngology*.  
 L. W. Ladd, *Clinical Microscopy*.  
 J. N. Lenker, *Otology, Rhinology, and Laryngology*.  
 W. E. Lower, *Genito-Urinary Surgery*.  
 D. Marine, *Experimental Medicine*.  
 R. E. Skeel, *Gynecology*.

## Assistant Professors :

- H. A. Becker, *Surgery*.  
 H. N. Cole, *Dermatology*.  
 C. L. Cummer, *Clinical Microscopy*.  
 J. Farnsworth, *Obstetrics*.  
 P. J. Hanzlik, *Pharmacology*.  
 G. E. Harmon, *Hygiene and Bacteriology*.  
 J. L. Morris, *Biochemistry*.  
 B. M. Patten, *Histology and Embryology*.  
 J. Phillips, *Medicine*.  
 E. L. Porter, *Physiology*.  
 J. M. Rogoff, *Experimental Medicine*.  
 A. J. Skeel, *Obstetrics*.  
 M. D. Stepp, *Surgery*.  
 C. W. Stone, *Nervous Diseases*.  
 J. J. Thomas, *Obstetrics*.  
 W. H. Weir, *Gynecology*.  
 11 Associates, 30 Assistants, 30 Instructors, 32 Demonstrators.

## FRANKLIN T. BACKUS LAW SCHOOL.

## Professors :

- E. Wambaugh, *Law*.  
 A. C. Brightman, *Law—Contracts, Quasi-Contracts, Sales, and Partnership*.  
 F. MacM. Cobb, *Law—Public Service, Corporations*.  
 C. Dewitt, *Law—Surety and Mortgages*.  
 W. T. Dunmore (Dean), *Law—Property, Evidence and Wills*.  
 C. M. Finck, *Law—Equity Jurisdiction, Trusts, Negotiable Instruments, and Domestic Relation*.  
 A. Hadden, *Law*.  
 R. Inglis, *Law—Private Corporations*.  
 H. H. Johnson, *Constitutional Law*.  
 A. H. Throckmorton, *Law—Agency, Conflict of Laws and Pleading*.  
 1 Instructor, 2 Lecturers.

## FACULTY OF THE DENTAL SCHOOL.

## Professors :

- F. M. Casto (Dean), *Orthodontia*.  
 C. A. Hamann, *Oral Surgery*.  
 H. H. Hosford, *Chemistry*.  
 N. W. Ingalls, *Anatomy*.  
 W. H. O. McGehee, *Operative Dentistry, Dental Pathology, and Therapeutics*.  
 R. G. Perkins, *Bacteriology*.  
 F. C. Waite, *Histology*.  
 C. J. Wiggers, *Physiology*.  
 G. H. Wilson, *Prosthesis and Metallurgy*.

## Assistant Professors :

- J. P. Henahan, *Anesthesia and Exodontia*.  
 J. H. Hood, *Periodontia and Roentgenology*.  
 V. C. Rowland, *Pathology*.  
 8 Instructors, 4 Lecturers, 7 Demonstrators.

## FACULTY OF THE LIBRARY SCHOOL.

## Professor :

- A. S. Tyler (Miss) (Director), *Library Economy, Library Organization, and Administration*.

## Associate Professor :

- A. D. Severence, *Bibliography*.

## Assistant Professors :

- L. A. Eastman (Miss), *Library Economy, Library Organization and Administration*.  
 T. E. Grant (Miss), *Library Economy, Cataloguing, Subject Bibliography, Book Selection*.  
 6 Instructors, 14 Lecturers.

# FACULTY OF THE SCHOOL OF PHARMACY.

## Professors :

- E. T. Motley, *Chemistry*.  
E. Spease (Dean), *Pharmacy*.

## Assistant Professor :

- P. J. Hanzlik, *Pharmacology*.  
1 Associate, 3 Assistants, 10 Lecturers.

## School of Applied Social Sciences.

## Professors :

- C. C. Arbuthnot, *Economics*.  
J. E. Cutler, *Sociology*.  
A. R. Hatton, *Political Science*.  
M. E. Parker (Miss), *Household Administration*.

## Assistant Professors :

- C. W. Coulter, *Sociology*.  
H. W. Dodds, *Political Science*.  
C. E. Gehlke, *Sociology*.  
Many Lecturers and Assistants.

# FACULTY OF ADELBERT COLLEGE.

(Undergraduate College for Men.)

## Professors :

- C. C. Arbuthnot, *Economics*.  
E. J. Benton, *History*.  
C. P. Bill, *Greek*.  
B. P. Bourland, *Romance Languages*.  
M. M. Curtis, *Philosophy*.  
H. P. Cushing, *Geology*.  
J. E. Cutler, *Sociology*.  
O. F. Emerson, *English*.  
C. Harris, *German*.  
A. R. Halton, *Political Science*.  
F. H. Herrick, *Biology*.  
W. G. Leutner (Dean), *Greek and Latin*.  
H. W. Mountcastle, *Physics and Astronomy*.  
A. D. Pitcher, *Mathematics*.  
S. B. Platner, *Latin*.  
O. F. Tower, *Chemistry*.

## Associate Professors :

- J. E. Hyde, *Geology*.  
J. S. Moore, *Philosophy*.  
B. E. Schmitt, *History*.  
H. S. Woodward, *English*.

## Assistant Professors :

- J. J. Breitenbecher, *Biology*.  
O. W. Coulter, *Sociology*.  
H. W. Dodds, *Political Science*.

## Assistant Professors—Continued :

- C. E. Gehlke, *Sociology*.  
A. F. O. Germann, *Chemistry*.  
W. J. Graham, *English*.  
C. D. Lamberton, *Biblical Literature*.  
C. H. Otis, *Biology*.  
O. E. Staaf, *Romance Languages*.  
E. von den Steiner, *Physical Training*.  
15 Instructors.

# FACULTY OF COLLEGE FOR WOMEN.

## Professors :

- H. A. Aikins, *Philosophy*.  
C. C. Arbuthnot, *Economics*.  
J. L. Borgerhoff, *Romance Languages*.  
H. E. Bourne, *History*.  
C. E. Clemens, *History and Theory of Music*.  
H. P. Cushing, *Geology*.  
J. E. Cutler, *Sociology*.  
R. W. Deering, *German*.  
E. N. Fowler, *Greek*.  
H. Gruener, *Chemistry*.  
H. M. Haydn, *Biblical Literature*.  
F. H. Herrick, *Biology*.  
W. H. Hulme, *English*.  
H. W. Mountcastle, *Physics and Astronomy*.  
C. L. Myers (Miss), *English*.  
M. E. Partar (Miss), *Household Administration*.  
A. H. Palmié (Miss), *Mathematics*.  
E. M. Perkins (Miss), *Latin*.  
H. M. Smith (Miss), (Dean).  
L. Thorndike, *History*.

## Associate Professor :

- J. C. Chapman, *Experimental Education*.

## Assistant Professors :

- F. R. Amos (Miss), *English*.  
J. R. Breitenbecker, *Biology*.  
E. R. Beckwith (Mrs.), *Mathematics*.  
E. Ferris (Miss), *History*.  
A. F. O. Germann, *Chemistry*.  
J. E. Hyde, *Geology*.  
M. G. Lundberg (Miss), *Household Administration*.  
I. T. O'Neil (Mrs.), *Romance Languages*.  
C. H. Otis, *Biology*.  
16 Instructors.

**Post-Graduate Courses.**—No special statement for the Graduate School for the current year.

## Institutes and Museums.—

- Reference Museum at the Dental School.  
Geological collections in the Geological Laboratory.  
Natural History Museum in Biological Laboratory.  
Institute of Religious Education.

**Libraries.—**

Hatch Library, 95,519 volumes, 30,000 unbound books and pamphlets.  
*Librarian*: G. F. Strong. *Assistant Librarian*: Miss H. M. Beale.  
 The Library, The College for Women, 15,617 volumes. *Librarian*: Miss C. E. Waters.  
 The Law School Library, 15,000 volumes.  
 The School of Medicine, 5,500 volumes.  
 The Dental School, 500 volumes.  
 The Library School, 2,500 volumes.  
 The School of Pharmacy, 500 volumes.

**CASE SCHOOL OF APPLIED SCIENCE** (Engineering College), Cleveland, Ohio.  
 (1881.)

This is an engineering college. The work is both theoretical and practical. About one-half of each day is given to practical work in the drafting room, laboratory, the shop, or the field. The month of June is a practice term, when all the time is given to practical work in the laboratories or in the surveying camps. Length of Course, 4 years.

*Terms*: Two semesters and one practice term.  
*Budget*: \$201,979.

*Students*: 781.

**OFFICIALS.**

*President*.—Charles S. Howe, Ph.D., D.Sc., LL.D.  
*Dean*.—Theodore M. Focke, Ph.D.  
*Secretary of the Board of Trustees*.—Eckstein Case.

**Degrees conferred.**—B.S., M.S.

**PROFESSORS.**

**Professors :**

F. M. Comstock, *Drawing and Descriptive Geometry*.  
 A. S. Wright, *Modern Languages*.  
 D. C. Miller, *Physics*.  
 A. W. Smith, *Chemistry*.  
 F. H. Neff, *Civil Engineering*. [*alogy*.]  
 F. R. Van Horn, *Geology and Mineralogy*.  
 H. B. Dates, *Electrical Engineering*.  
 G. H. Johnson, *History*.  
 C. H. Fulton, *Mining Engineering*.  
 F. H. Vose, *Mechanical Engineering*.  
 R. H. Danforth, *Mechanics*.

**Associate Professors :**

D. T. Wilson, *Astronomy and Mathematics*.  
 W. R. Veazey, *Chemistry*. [*matics*.]  
 C. L. Eddy, *Railroad Engineering*.

**Assistant Professors :**

C. W. Coppersmith, *Machine Design*.  
 H. F. Pasini, *Gymnasium*.  
 C. D. Hodgman, *Physics*.  
 R. C. Hummell, *Chemistry*.  
 N. A. Lange, *Chemistry*.  
 E. J. Martin, *Physics*.  
 K. O. Thompson, *English*.  
 H. M. Showman, *Mechanics*.  
 E. J. Staples, *Electricity*.  
 W. E. Stark, *Mechanical Engineering*.  
 C. F. Thomas, *Mathematics*.  
 C. W. Thomas, *Drawing and Descriptive Geometry*.  
 W. D. Trautmann, *Modern Languages*.  
 14 Lecturers and 31 Instructors.

**Post-Graduate Courses.**—In Civil Engineering, Mechanical Engineering, Chemical Engineering, Mining Engineering, Metallurgical Engineering, Physics. Leading to the degrees of Civil Engineer, Mechanical Engineer, Chemical Engineer, Mining Engineer, Metallurgical Engineer, and Master of Science.

*Librarian*: K. O. Thompson. Each department has its own special library under the charge of one of the assistant professors or instructors.

**Museum.**—Geology and Mineralogy.

**COLLEGE OF PHYSICIANS AND SURGEONS.** No particulars received

**CLINTON (New York).****HAMILTON COLLEGE**, Clinton, New York. (1812.)*Terms* : Two semesters per year.*Students* : 294.*Budget* : \$150,000 approximately.**OFFICIALS.***President*.—Frederick C. Ferry.*Chairman of the Board of Trustees*.—Hon. Elihu Root.*Clerk of the Board of Trustees*.—George E. Dunham.*Treasurer*.—Charles B. Rogers.*Registrar*.—Samuel J. Saunders.*Dean*.—Arthur P. Saunders.*Clerk of the Faculty*.—Horace S. Brown.**Degrees conferred**.—A.B., B.S., A.M., M.S., D.D., LL.D., Litt.D. Oxford fashion of hoods used.**PROFESSORS.****FACULTY OF ARTS AND SCIENCE.****Professors :**F. C. Ferry, *Mathematics*.H. C. G. Brandt, *German Language and Literature*.A. D. Morrill, *Biology*.W. H. Squires, *Philosophy*.S. J. Saunders, *Physics*.W. P. Shepard, *Romance Languages and Literature*.A. P. Saunders, *Agriculture and General Chemistry*.E. Fitch, *Greek*.J. D. Ibbotson, *Hebrew*.F. H. Wood, *Political Science*.F. M. Davenport, *Law and Civil Polity*.C. L. Lewis, *Rhetoric and Oratory*.**Post-Graduate Courses**.—The Degrees of Master of Arts and Master of Science is conferred upon graduates of Hamilton, or of any other college with equivalent courses, for residence of one year.**Museums and Learned Institutions.**

Museum of Natural History.

The Epsilon Chapter in New York State of the Honorary Educational Society, *Phi Beta Kappa*.**Library**.—The College Library contains 86,000 volumes and 23,000 pamphlets.  
*Librarian* : J. D. Ibbotson.**COIMBATORE (India).****THE AGRICULTURAL COLLEGE AND RESEARCH INSTITUTE**, Coimbatore, India. (1896.)

The College is a part of the Agricultural Department of the Government of Madras.

*Terms* : Three per year.*Students* : 120.*Budget* : Department budget of Expenditure :

Allotment for Principal (1919-20): Rs. 43,000.

**OFFICIALS.***Principal*.—Cecil Wood, M.A.*Acting Principal*.—W. McRae, M.A., B.Sc., F.L.S.*Assistant Principal*.—Rai Sahib M. R. Ramaswami Sivan Ayl., B.A.*Superintendent* (Central Farm).—Cecil Wood.*Superintendent* (acting, Central Farm).—R. C. Broadfoot, and 1 Farm Office Manager.*Government Mycologist*.—W. McRae, and 4 Assistants.*Government Economic Botanist*.—F. R. Parnell.*Government Economic Botanist* (acting).—G. N. Rangaswami Ayyangar Ayl., and 3 Assistants.



*Government Agricultural Chemist.*—R. V. Norris, and 8 Assistants.

*Government Entomologist.*—E. Ballard, and 5 Assistants.

*Government Systematic Botanist.*—R. B. K. R. Acharyar, and 3 Assistants.

*Government Sugarcane Expert.*—C. A. Barber.

*Government Sugarcane Expert* (acting).—T. S. Venkataraman, and 3 Assistants.

*Professor of Agriculture.*—C. Wood.

*Professor of Agriculture* (acting).—D. A. R. Garu, and 1 Lecturer, 5 Assistants, and 1 Supervisor.

**Degrees and Hoods.**—Certificate of Proficiency in Practical Agriculture. Diploma of Agriculture, carrying the designation of Licentiate in Agriculture (L.Ag.)

**Library** containing 3,126 volumes; 4,137 periodicals; 11,756 pamphlets, bulletins, etc. *Librarian* : R. V. Norris, D.Sc., M.Sc., F.I.C.

## COLD SPRING HARBOR (Long Island, N.Y.).

**EUGENICS RECORD OFFICE**, Cold Spring Harbor, Long Island. (1910.)

One of the departments of the Carnegie Institution of Washington. Founded by Mrs. E. H. Harriman and maintained by her until January 1st, 1918, when it was given by her to the Carnegie Institution of Washington.

*Terms* : Work is continuous. *Budget* : \$26,350. (1919.)

*Director.*—Chas. B. Davenport, Ph.D.

*Superintendent.*—H. H. Laughlin, Sc.D.

**Research Staff.** (Work in Eugenics.)

H. J. Banker, Families of college men and women.

A. H. Estabrook, The Ishmaelites.

L. A. Nelson (Miss), Archivist.

Elizabeth B. Muncey, M.D., Field Worker.

M. L. Earle (Miss), Library Reader.

**Learned Societies.**—The Eugenics Research Association, composed of field workers who have been trained at the Eugenics Record Office, and others doing professional work in human heredity. 136 active members and 9 supporting.

**Library**, about 3,000 volumes; Archives, 75,000 sheets of original manuscript data; 700,000 index cards to materials.

## STATION FOR EXPERIMENTAL EVOLUTION, Cold Spring Harbor, Long Island, N.Y. (1904.)

One of the departments of the Carnegie Institution of Washington, and supported by a part of the endowment given to the Carnegie Institution of Washington by Andrew Carnegie.

*Budget* (1919): \$63,474.

*Director.*—Chas. B. Davenport, Ph.D.

**Research Staff.** (Work in Genetics.)

A. M. Banta, Cave Animals and sex control.

A. F. Blakeslee, Plant genetics and intermediate sex.

H. D. Fish, Heredity of spotted hair coats.

J. A. Harris, Biometry and plant genetics.

C. C. Little, Cancer in mice, human sex ratios.

C. W. Metz, *Drosophila* experiments and chromosomes.

O. Riddle, Pigeons, Physiology of reproduction.

E. C. MacDowell, Effects of environment on germ-plasm.

Library of about 5,700 volumes.

## BIOLOGICAL LABORATORY, Cold Spring Harbor, Long Island. (1890.)

A Department of the Brooklyn Institution of Arts and Sciences.

*Terms* : From July to mid-August. (Six weeks.)

*Students* : Usually limited to about 50. Persons received are generally teachers or graduates of colleges.

*Budget* : \$3,725 for 1919.

*Director.*—Chas. B. Davenport, Ph.D.

*Assistant Director.*—H. E. Walter, Ph.D.



## PROFESSORS.

H. S. Pratt, <i>Anatomy</i> .	J. W. Harshberger, <i>Botany</i> .
A. H. Walter (Mrs.), <i>Bird Study</i> .	H. H. Wilder, <i>Physical Anthropology</i> .
H. H. Laughlin, <i>Training Course for Field Workers in Eugenics</i> .	H. D. Fish, <i>Heredity</i> .

4 Permanent Assistants and several appointed for temporary work; 11 Lecturers, Readers, etc.

**COLLEGE PARK (Maryland).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director*.—H. J. Patterson.

**COLOMBO (Ceylon).**

**THE COLOMBO MUSEUM, Colombo, Ceylon.**

*Director*.—Joseph Pearson, D.Sc., F.R.S.E., F.L.S.

*Marine Biologist*.—Joseph Pearson, D.Sc., F.R.S.E., F.L.S.

*Assistant Marine Biologist*.—L. H. James, M.A.

*Entomologist*.—G. M. Henry.

*Secretary and Librarian*.—G. A. Joseph.

The Museum was founded in 1875 by the Right. Hon. Sir William Gregory, K.C.M.G., Governor of Ceylon.

**The Exhibition Galleries** contain Medieval, Archeological, and Ethnographical objects belonging to Ceylon, divided into the following sections: Ethnological Rooms, Bronze Room, Stone Gallery, and Furniture Room. The exhibits include copies of unique twelfth-century paintings of Buddhist Art.

**The Mineral Gallery** contains a collection of rocks, minerals, and gems of Ceylon, arranged by the Mineralogical Survey.

**The Natural History Gallery** contains an exhibition of vertebrate and invertebrate animals belonging to the Fauna of Ceylon. It comprises the following principal sections:

1. Main Gallery, containing birds, also several groups of invertebrates—*e.g.*,
2. Fish Gallery (including marine invertebrates). [insects, etc.
3. Mammalian Gallery.
4. Reptile Gallery.
5. Research Collection. There are very fine collections of insects (especially Lepidoptera), as well as collections of mammal and bird skins and marine invertebrates.

In recent years the Museum has benefited by the accession of extensive collections—*e.g.*, the Pole Collection of Lepidoptera, the Swayne Collection of Snakes, the Collett Collection of Land Mollusca, together with extensive donations by various local naturalists.

**The Colombo Museum Library** contains upwards of 10,000 volumes. The Library receives a copy of every work published in the Colony since 1885. It contains many rare and valuable works of reference on Natural Science, Oriental Literature, and Ceylon. The special characteristics of the Library are the possession of one of the best—if not the best—collections of Ceylonese literature, a very good collection of books on Biology, and a most valuable collection of ola palm-leaf manuscripts in Sinhalese, Pali, and Sanskrit. The ola manuscripts number nearly 500, and the greater portion are the sacred Buddhistical books; but besides these manuscripts there are historical, philological, medical, poetical, and other works of a miscellaneous character.

**The Library of the Ceylon Branch of the Royal Asiatic Society**, founded in 1845, is also housed in the Museum. This Library contains about 8,000 volumes, consisting of many valuable books on Ceylon, Archeology, Oriental Literature, Voyages, and a large collection of the publications of learned societies with which the local society exchanges its Journal.

**Publications**.—"Spolia Zeylanica," a quarterly Journal established in 1903; "Memoirs of the Colombo Museum;" also various catalogues and guides.

**COLOMBO OBSERVATORY**, Colombo. (Attached to Survey Department, Ceylon.)  
Time and Meteorology.

# OFFICIALS.

*Superintendent*.—A. J. Bamford, B.A., B.Sc., F.R.A.S., F.R. Met. Soc.  
*First Assistant*.—J. E. Evans, F.R. Met. Soc., pro. tem., Acting Superintendent.  
*Assistant*.—H. Jameson, B.Sc.  
*Meteorological Observer*.—F. A. Pullenayegum.  
13 Assistant Clerks.

## COLORADO SPRINGS (Colorado).

**COLORADO COLLEGE**, Colorado Springs, Colorado. (1874.)

*Terms* : Two half-years—September to January, and February to June.

*Students* : 500-700.

*Budget* : Average about \$25,000; often higher as special gifts are received.

# OFFICIALS.

<i>President</i> .—C. A. Duniway.	<i>Registrar</i> .—J. M. Morrow.
<i>Secretary</i> .—R. H. Motten.	<i>Treasurer</i> .—W. W. Postlethwaite.
<i>Dean of College</i> .—J. G. McMurtry.	<i>Librarian</i> .—M. D. Ormes.
<i>Dean of Women</i> .—Marion Churchill.	

Degrees conferred.—A.B., B.S., A.M., M.S., F.E. (Forest Engineer), C.E., E.E.

# PROFESSORS.

## DEPARTMENT OF ARTS AND SCIENCES.

### Professors :

(Vacant), *Romance Languages*.  
J. G. McMurtry, *Biblical Literature*.  
R. J. Gilmore, *Biology*.  
W. Strieby, *Chemistry*.  
A. E. Davies, *Education*.  
R. H. Motten, *English*.  
G. K. Pattee, *English*.  
S. Thompson, *English*.  
G. M. Howe, *German*.  
C. C. Microw, *Greek and Latin*.  
C. H. Sisam, *Mathematics*.  
G. H. Albright, *Mathematics*.

### Associate Professors :

F. W. Douglas, *Chemistry*.  
S. F. Bemis, *History*.  
W. V. Lovitt, *Mathematics*.

### Assistant Professors :

A. E. Lambert, *Biology*.  
P. V. West, *Education*.  
F. C. Palm, *History*.  
11 Instructors.

## DEPARTMENT OF ENGINEERING.

### Professor : [and Physics.]

R. R. Tileston, *Electrical Engineering*

**Post-Graduate Courses**.—Limited amount in several departments; primarily an undergraduate college.

**Museums**.—Natural History. Miscellaneous. Fine Arts Collection.

## AFFILIATED INSTITUTION.

Academy of Fine Arts.

**COLORADO SCHOOL OF MINES.** See GOLDEN.

**COLUMBIA UNIVERSITY.** See NEW YORK.

### Associate Professors :

F. M. Okey, *Civil Engineering*.  
W. V. Lovitt, *Civil Engineering*.

### Assistant Professors :

G. H. Bardsley, *Civil Engineering*.  
Gordon Parker, *Civil Engineering*.  
1 Instructor.

## DEPARTMENT OF BUSINESS ADMINISTRATION.

### Professors :

A. P. R. Drucker, *Business Administration and Banking*.  
Holmes Beckwith, *Business Administration and Banking*.

### Assistant Professor :

J. Ewart, *Business Administration and Banking*.  
1 Instructor.

## DEPARTMENT OF MUSIC.

*Dean*.—E. D. Halc.  
5 Instructors.

## DEPARTMENT OF FINE ARTS.

*Directors*.—S. F. Leaming (Miss).  
C. Leaming (Miss).

# COLUMBIA (Missouri).

UNIVERSITY OF MISSOURI. No particulars received.

THE STATE HISTORICAL SOCIETY OF MISSOURI, Columbia, Missouri.

Founded 1898. Incorporated 1899.

Budget : 1919-20, by appropriation of the State of Missouri, \$35,685.

## OFFICIALS.

President.—Walter B. Stevens, St. Louis, Mo.

Secretary.—Floyd C. Shoemaker, Columbia, Mo.

6 Vice-Presidents, 1 Treasurer, 26 Trustees.

Publishes Quarterly Magazine.—“The Missouri Historical Review,” 13 volumes published.

Library.—180,000 books and pamphlets; 10,000 bound volumes Missouri newspapers. Librarian : F. C. Shoemaker.

## EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—F. B. Mumford.

# COLUMBUS (Ohio).

THE OHIO STATE UNIVERSITY, Columbus, Ohio. (1870.)

Terms : September to June, and summer session.

Students (1918-1919): 5,065. Budget : \$2,000,000.

## OFFICIALS.

President.—W. O. Thompson, D.D., LL.D.

Secretary and Registrar.—Miss E. D. Corkins, B.A.

Degrees conferred.—B.Sc. (Agr.), B.A., B.Sc., D.D.S., B.Sc. (Edu.), M.D., D.V.M., B.Arch., J.D., LL.B.

## PROFESSORS.

### COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE.

#### Professors :

G. F. Arps, *Psychology*.  
F. C. Blake, *Physics*.  
R. D. Bohannon, *Mathematics*.  
G. M. Bolling, *Greek Language and Literature*.  
B. L. Bowen, *Romance Languages and Literature*.  
J. A. Bownocker, *Inorganic Geology*.  
J. N. Bradford, *Architecture*.  
J. E. Carman, *Geology*.  
C. St. J. Chubb, jr., *Architecture*.  
F. W. Coker, Ph.D., *Political Science*.  
A. D. Cole, *Physics*.  
G. L. Converse, Major, *Military Science and Tactics*.  
D. J. Demorest, *Metallurgy*.  
J. V. Denney, *English*.  
S. C. Derby, *Latin*.  
R. F. Earhart, *Physics*.  
B. A. Eisenlohr, *German*.  
W. S. Elden, *Latin*.  
M. B. Evans, *German*.  
W. L. Evans, *Chemistry*.  
C. W. Foulk, *Analytical Chemistry*.

#### Professors—Continued :

W. L. Graves, *English*.  
J. E. Hagerty, *Economics and Sociology*.  
M. B. Hammond, “*Inorganic*” and *Physical Chemistry*.  
H. C. Hockett, *American History*.  
A. W. Hodgman, *Latin*.  
C. C. Huntington, *Economics and Sociology*.  
E. S. Inghram, *Romance Languages*.  
C. F. Kelley, *Art*.  
V. A. Ketcham, *English*.  
G. W. Knight, *American History*.  
H. W. Kuhn, *Mathematics*.  
J. A. Leighton, *Philosophy*.  
H. C. Lord, *Astronomy*.  
W. J. McCaughey, *Mineralogy*.  
G. W. McCoard, *Mathematics*.  
C. C. McCracken, *School Administration*.  
G. H. McKnight, *English*.  
E. H. McNeal, *European History*.  
W. McPherson, *Chemistry*.  
H. D. Minchin, *Applied Optics*.  
C. C. Morris, *Mathematics*.  
H. Osborn, *Zoology and Entomology*.

**Professors—Continued :**

- R. C. Osburn, *Zoology and Entomology*.  
 C. Perkins, *European History*.  
 J. H. Schaffner, *Botany*.  
 C. Sheard, *Physics and Applied Optics*.  
 W. H. Siebert, *European History*.  
 A. W. Smith, *Physics*.  
 H. D. Smith, *Architecture*.  
 H. R. Spencer, *Political Science*.  
 K. D. Swartzel, *Mathematics*.  
 J. R. Taylor, *English*.  
 E. N. Transeau, *Botany*.  
 E. L. Ustry, *Manual Training*.  
 A. R. Van Meter (Miss), *Home Economics*.  
 E. N. White (Miss), *Home Economics*.  
 J. R. Withrow, *Chemistry*.  
 S. E. Rasor, *Mathematics*.  
 C. O. Ruggles, *Economics and Sociology*.

**Associate Professors :**

- C. L. Arnold, *Mathematics*.  
 J. S. Hine, *Zoology and Entomology*.  
 E. S. Manson, jr., *Astronomy*.

**Assistant Professors :**

- C. E. Andrews, *English*.  
 A. E. Avey, *Philosophy*.  
 G. M. Bareis (Miss), *Mathematics*.  
 S. T. Barrows (Miss), *German*.  
 W. M. Barrows, *Zoology and Entomology*.  
 H. M. Beatty, *Mathematics*.  
 E. L. Beck, *English*.  
 C. E. Boord, *Chemistry*.  
 C. S. Boucher, *American History*.  
 J. W. Bridges, *Psychology*.  
 A. R. Chandler, *Philosophy*.  
 G. S. Chapin, *Romance Languages*.  
 L. A. Cooper, *English*.  
 J. E. Day, *Chemistry*.  
 P. H. Elwood, *Landscape Architecture*.  
 R. F. Griggs, *Botany*.  
 T. E. Hamilton, *Romance Languages*.  
 M. C. Hathaway (Miss), *Home Economics*.  
 H. G. Heil, *Physics*.  
 T. M. Hills, *Geology*.  
 M. Hollingworth, *Chemistry*.  
 F. H. Kreeker, *Zoology and Entomology*.  
 E. H. Mack, *Chemistry*.  
 C. L. Metcalf, *Zoology and Entomology*.  
 C. C. North, *Economics and Sociology*.  
 H. L. Olin, *Chemistry*.  
 M. Percival, *English*.  
 J. B. Preston, *Mathematics*.  
 A. R. Robinson (Miss), *Art*.  
 W. G. Stover, *Botany*.  
 M. Thomas (Miss), *German*.  
 W. M. Tucker, *Geology*.  
 H. F. Walradt, *Economics and Sociology*.  
 G. Washburne, *European History*.  
 A. P. Weiss, *Psychology*.

**COLLEGE OF AGRICULTURE.****Professors :**

- F. E. Bear, *Soils*.  
 O. Erf, *Dairying*.  
 D. J. Kays, *Animal Husbandry*.  
 J. F. Lyman, *Agricultural Chemistry*.  
 L. M. Montgomery, *Horticulture*.  
 W. Paddock, *Horticulture*.  
 J. B. Park, *Farm Crops*.  
 C. S. Plumb, *Animal Husbandry*.  
 H. C. Ramsower, *Agricultural Engineering*.  
 A. Vivian, *Agricultural Chemistry*.

**Assistant Professors :**

- J. S. Coffey, *Animal Husbandry*.  
 H. E. Erdman, *Rural Economics*.  
 J. I. Falconer, " "  
 A. C. Hottes, *Floriculture*.  
 F. W. Ives, *Agricultural Engineering*.  
 F. S. Jacoby, *Poultry Husbandry*.  
 E. F. Johnson, *Agricultural Education*.  
 T. D. Phillips, *Rural Economics*.  
 T. G. Phillips, *Agricultural Chemistry*.  
 N. W. Scherer, *Horticulture*.  
 R. B. Stoltz, *Dairying*.  
 C. J. Willard, *Farm Crops*.

**COLLEGES OF MEDICINE,  
PHARMACY, AND DENTISTRY.****Professors:**

- A. M. Bleile, *Anatomy and Physiology*.  
 C. Brooks, *Physiology and Pharmacology*.  
 J. E. Brown, *Oto-Laryngology*.  
 F. A. Burrett, *Surgery and Clinical Surgery*.  
 H. V. Cottrell, *Prosthetic Dentistry*.  
 C. A. Dye, *Pharmacy*.  
 J. A. Ferree, *Eye, Ear, Nose, and Throat*.  
 F. B. Grosvenor, *Clinical Diagnosis and Microscopy*.  
 A. E. Hissdale, *Materia Medica and Clinical Therapeutics*.  
 W. A. Humphrey, *Diseases of Women, Surgical Gynecology, and Obstetrics*.  
 F. L. Landacre, *Anatomy*.  
 E. F. McCampbell, *Preventive Medicine*.  
 C. B. Morrey, *Bacteriology*.  
 R. Pintner, *Psychology*.  
 A. Rogers, *Obstetrics*.  
 E. Scott, *Pathology*.  
 H. M. Semans, *Operative Dentistry and Dental Anatomy*.  
 S. Sisson, *Comparative Anatomy*.  
 C. L. Spohr, *Clinical Pathology*.  
 A. Timberman, *Ophthalmology*.  
 J. H. J. Upham, *Medicine*.  
 Y. Wardlow, *Clinical Gynecology*.  
 R. C. Wolcott, *Internal Medicine*.

**Assistant Professors :**

- L. L. Bigelow, *Surgery*.  
 H. B. Blakey, *Medicine*.  
 E. C. Buck, *Anatomy*.



# Assistant Professors—Continued :

J. J. Coons, *Medicine*.  
V. A. Dodd, *Surgery and Gynecology*.  
F. Fletcher, *Gynecology*.  
J. Forman, *Pathology*.  
E. J. Gordon, *Medicine*.  
W. C. Graham, *Dental Medicine*.  
E. A. Hamilton, *Surgery*.  
I. B. Harris, *Clinical Surgery*.  
S. A. Hatfield, *Medicine*.  
E. R. Hayhurst, *Hygiene*.  
C. H. Hebble, *Operative Dentistry*.  
E. G. Horton, *Pediatrics*.  
C. McPeck, *Physiology*.  
R. G. Paterson, *Public Health*.  
R. J. Seymour, *Anatomy and Physiology*.  
C. J. Shepard, *Dermatology*.  
W. A. Starin, *Bacteriology*.  
A. M. Steinfeld, *Surgery*.  
J. H. Warren, *Anatomy*.  
R. B. Wiltberger, *Crown, Bridge, and Porcelain*.

## COLLEGE OF EDUCATION.

### Professors :

L. F. Anderson, *History and Philosophy of Education*.  
S. W. Brown, *School Administration*.  
F. R. Castleman, *Physical Education*.  
J. L. Clifton, *Principles and Practice of Education*.  
J. Nichols, *Physical Education*.  
L. St. John, " "  
G. R. Twiss, *Principles and Practice of Education*.  
J. W. Wilce, *Physical Education*.

### Assistant Professors :

F. A. Meyer (Miss), *Physical Education*.  
W. F. Stewart, *Agricultural Education*.

## COLLEGE OF ENGINEERING.

### Professors :

J. E. Boyd, *Mechanics*.  
F. C. Caldwell, *Electrical Engineering*.  
E. F. Coddington, *Mechanics*.  
D. J. Demorest, *Metallurgy*.  
F. H. Eno, *Municipal Engineering*.  
T. E. French, *Engineering Drawing*.  
W. A. Knight, *Machine-Shop Practice*.

**Post-Graduate Courses.**—In Arts, Philosophy, Science, Education, Engineering, Commerce, and Literature, and summer courses in Botany, Entomology, and Zoology at the Late Laboratory.

**Library.**—University Library. Contains 184,268 volumes including, the Parliamentary Papers of Great Britain, an excellent collection of new books in Animal Husbandry, and a collection of works on the Civil War. *Librarian* : Miss O. Jones.

### Museums.—

Archeological and Historical Museum. *Curator* : W. C. Mills.  
Geological Museum. *Curator* : J. E. Carman.  
Botanical Museum.  
Zoological Museum.  
Ceramic Museum.  
Veterinary Anatomy Museum.

# Professors—Continued :

W. J. McCaughey, *Minerology*.  
W. T. Magruder, *Mechanical Engineering*.  
F. W. Marquis, *Steam Engineering*.  
C. T. Morris, *Structural Engineering*.  
C. A. Norman, *Machine Design*.  
E. Orton, jr., *Ceramic Engineering*.  
F. A. Ray, *Mine Engineering*.  
C. E. Sherman, *Civil Engineering*.  
A. S. Watts, *Ceramic Engineering*.

### Associate Professor :

H. Judd, *Experimental Engineering*.

### Assistant Professors :

C. B. Harrop, *Ceramic Engineering*.  
R. Meiklejohn, *Engineering Drawing*.  
H. E. Nold, *Mine Engineering*.  
D. Schaaf, *Metallurgy*.  
R. C. Sloane, *Civil Engineering*.  
C. L. Svensen, *Engineering Drawing*.  
W. D. Turnbull, " "  
O. E. Williams, " "  
H. Wilson, *Ceramic Engineering*.

## COLLEGE OF LAW.

### Professors :

J. J. Adams, *Law*.  
C. D. Laylin, "  
J. W. Madden, *Law*.  
G. W. Rightmire, *Law*.  
A. H. Tuttle, *Law*.

## COLLEGE OF VETERINARY MEDICINE.

### Professors :

O. V. Brumley, *Veterinary Surgeon*.  
A. G. G. Richardson, *Veterinary Pathology*.  
D. S. White, *Veterinary Medicine*.

### Assistant Professors :

W. A. Hobbs, *Veterinary Medicine*.  
J. N. Shoemaker, *Veterinary Medicine*.  
J. H. Snook, *Veterinary Surgery*.

## COLLEGE OF COMMERCE AND JOURNALISM.

### Professors :

O. C. Hooper, *Journalism*.  
J. S. Myers, "



# OHIO ACADEMY OF SCIENCE, Columbus, Ohio.

Organized 1891. Incorporated 1892.

## OFFICERS (1919-20).

*President*.—Prof. F. C. Blake, Ohio State University, Columbus.

*Vice-Presidents*.—

*Zoology*: Prof. F. H. Herrick, Western Reserve University, Cleveland.

*Botany*: Prof. A. B. Plowman, Municipal University of Akron, Akron.

*Geology*: Prof. J. E. Hyde, Western Reserve University, Cleveland.

*Physics*: Prof. J. A. Culler, Miami University, Oxford.

*Medical Sciences*: Prof. R. J. Seymour, Ohio State University, Columbus.

*Psychology*: Prof. G. R. Wells, Ohio Wesleyan University, Delaware.

*Secretary*.—Prof. Edward L. Rice, Ohio Wesleyan University, Delaware.

*Treasurer*.—Prof. W. J. Kostir, Ohio State University, Columbus.

*Librarian*.—C. W. Reeder, Ohio State University Library, Columbus.

Membership, about 275.

*Sections*.—Zoology, Botany, Geology, Physics, Medical Sciences, Psychology.

*Meetings* are held in various college towns of the State.

*Publications*.—Proceedings of the Ohio Academy of Science, consisting of Annual Reports and a series of Special Papers (19 published). *Official Organ*: "Ohio Journal of Science."

## CORK.

UNIVERSITY COLLEGE, Cork. (1845.)

*Terms*: Three per year.

*Students*: 626.

*Budget*: Government Grant, £20,000.

## OFFICIALS.

*President*.—Sir Bertram C. A. Windke, M.A., D.Sc., LL.D., F.R.S., F.S.A., M.R.I.A., K.S.G.

*Registrar*.—Prof. P. J. Merriman, M.A.

*Secretary and Bursar*.—Joseph Downey.

*Librarian*.—John Fawcett, M.A.

Degrees as National University of Ireland.

## PROFESSORS.

### FACULTY OF ARTS.

#### Professors:

W. F. P. Stockley, *English*.

G. E. Lindsay (Mrs.), *German*.

H. J. Treston, *Ancient Classics*.

P. J. Merriman, *History*.

E. M. O'Sullivan (Miss), *Methods of Education*.

St. J. Lacy, *Music*.

Rev. T. E. Fitzgibbon, *Philosophy*.

M. Ryan (Miss), *Romance Languages*.

Rev. P. Power, *Archeology*.

#### Lecturers:

W. H. Porter, *Ancient Classics*.

E. P. McSweeney, *History of Education*.

W. C. Cooke, *Spanish*.

### FACULTY OF SCIENCE.

#### Professors:

M. J. Conran, *Mathematics*.

H. A. Cummins, *Botany and Agriculture*.

A. E. Dixon, *Chemistry*.

#### Professors—Continued:

I. Swain, *Geology and Geography*.

A. J. Rahilly, *Mathematical Physics*.

W. Bergin, *Physics*.

M. Hartog, *Zoology*.

#### Lecturers:

A. Hill, *Architecture*.

E. W. Hoare, *Veterinary Science*.

### FACULTY OF MEDICINE.

#### Professors:

D. P. Fitzgerald, *Anatomy*.

D. D. Donovan, *Hygiene*.

P. T. O'Sullivan, *Medical Jurisprudence*.

W. E. Ashley Cummins, *Medicine*.

H. Corby, *Obstetrics and Gynecology*.

A. W. Sandford, *Ophthalmology and* [Otology.

A. E. Moore, *Pathology*.

D. T. Barry, *Physiology*.

C. Yelverton Pearson, *Surgery*.

J. Dundon, *Therapeutics and Materia Medica*.

**Lecturers :**

J. J. Fitzgerald, *Mental Diseases*.  
J. R. Hackett, *Dental Surgery*.  
G. Sheedy, *Dental Mechanics*.

**FACULTY OF LAW.**

**Professors :**

G. J. Stokes, *Philosophy and Jurisprudence*.  
H. J. Moloney, *Law of Real Property and of Equity*.  
W. J. Dunlea, *Law of Contracts, of Personal Property and Torts*.

**FACULTY OF COMMERCE.**

**Professor :**

T. Smiddy, *Economics and Commerce*.

**Post-Graduate Courses** for the Degrees of Master and Doctor in the Faculties of the National University of Ireland.

**Institutes, Museums, Learned Societies.—**

Museums of Natural History, Geology and Mineralogy, Medicine, Archaeology and Ethnography.

Crawford Observatory, and Botanic Gardens.

Literary and Philosophical Society, Irish Literary Society, Engineering Society, Scientific Society, Commerce Society.

**College Library.**—60,000 volumes. *Librarian* : J. Fawcett, M.A.

**Lecturer :**

A. J. Magennis, *Accounting*.

**FACULTY OF ENGINEERING.**

**Professor :**

C. W. L. Alexander, *Civil Engineering*.

**Lecturer :**

P. E. Belas, *Electrical Technology*.

**FACULTY OF CELTIC STUDIES.**

**Professor :**

T. O'Donoghue, *Irish Languages and Literature*.

**Lecturer :**

E. O'Donoghue, *Modern Irish*.

**CORNEL UNIVERSITY. See ITHACA.**

**CORVALLIS (Oregon).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—A. B. Cordley.

**CROWLEY (Louisiana).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—W. R. Dodson.

**DALHOUSIE UNIVERSITY. See HALIFAX.**

**DARTMOUTH COLLEGE. See HANOVER.**

**DAVID HARE TRA NING COLLEGE. See CALCUTTA.**

**DAYNAAND ANGLO-VEDIC COLLEGE. See LAHORE.**

**DEHRA DUN (India).**

**FOREST RESEARCH INSTITUTE AND COLLEGE,** Dehra Dun, United Provinces, India. (1881.)

*Terms* : Spring term (April and May) on tour; Rains term (July to October) at Dehra; Winter term (November to March) on tour.

*Students* : 30 admitted yearly, course of two years.

*President.*—W. F. Perrée, C.I.E., I.F.S., Conservator of Forests.

**Degrees.**—No degree conferred. Certificates with honours or ordinary are awarded to students according to proficiency to those who pass the qualifying tests.

Entrants into the College courses usually possess a degree in Science of some Indian University.

The course is intended solely for natives of India, but adjoining British possessions have also sent students to be trained at this Institute.

**Departments.**—The institution is entirely managed and supported by the Government of India with a view to developing the resources of Indian forests, and supplying a staff of officers, recruited and trained in India, to fill vacancies in the Provincial Forest Service.

**Lecturers, Instructors, etc.**—The educational work is conducted by two Instructors aided by two Assistant Instructors. In addition the experts in each branch of the Research Institute deliver a course of lectures, each in his own subject, to the students.

**Libraries.**—A well-equipped library, containing works of reference on forestry and cognate sciences, forms part of the Research Institute.

**Museums.**—Museums exhibiting specimens of interest in Forest Economics, Botany, Zoology, and Silviculture form part of the Institute.

## DELAWARE (Ohio).

**OHIO WESLEYAN UNIVERSITY,** Delaware, Ohio. (1842.)

*Terms :* Two semesters.

*Students :* 1,200.

### OFFICIALS.

*President.*—J. W. Hoffman, M.A., D.D., LL.D.

*Vice-President.*—R. T. Stevenson, D.D., Ph.D., LL.D.

*Dean of the College and Registrar.*—W. E. Smyser, M.A., Litt.D.

*Dean of Men.*—W. G. Hormell, Ph.D.

*Dean of Women and the Conservatory.*—C. B. Austin, M.A., D.D.

*Treasurer.*—B. E. Cartmell, B.A.

**Degrees conferred.**—B.A., M.A., M.S., D.D., LL.D., Ped.D.

### PROFESSORS.

#### Professors :

R. Parsons, *Greek.*

C. B. Austin, *Mathematics and Astronomy.*

W. W. Davies, *German and Hebrew.*

R. T. Stevenson, *American History.*

W. G. Hormell, *Physics.*

C. A. Nelson (Miss), *French.*

T. G. Duvall, *Philosophy.*

E. L. Rice, *Biology.*

R. H. Walker, *English Bible.*

L. G. Westgate, *Geology.*

W. E. Smyser, *English.*

G. O. Higley, *Chemistry.*

B. L. McElroy, *Applied Christianity.*

G. N. Armstrong, *Mathematics.*

R. B. Miller, *Biblical Literature.*

C. M. Newcomb, *Oratory.*

G. R. Wells, *Psychology.*

P. K. Holmes, *Physical Education.*

F. E. Wolfe, *Economics.*

B. A. Arneson, *Political Science.*

H. P. Ward, *Military Training.*

A. R. Mead, *Education.*

O. M. Buck, *Missions and Comparative Religion.*

D. N. Robinson, *Latin.*

H. P. Reeves, *Spanish.* [ology.

J. H. Ashworth, *Economics and Soci-*

#### Associate Professors :

E. L. Konantz (Miss), *Mathematics.*

G. Stanley (Miss), *Latin.*

K. S. McLean, *Education.*

#### Libraries.—

Slocum Library. Monnett Library. Librarian : R. B. Miller.

#### Associate Professors—Continued :

C. A. Krummel, *German.*

C. E. O'Neal, *Botany.*

C. Walls (Miss), *Physical Education.*

H. W. Ewing „ „

#### Assistant Professors :

T. E. Steckel, *German.*

R. E. Jackson (Miss), *Oratory.*

M. Lewis (Miss), *Home Economics.*

A. F. Amy, *English.*

E. J. Beck, *Sociology.*

H. C. Hubbard, *History.*

T. P. Oakley „

C. C. Crump, *Astronomy.*

J. C. M. Grimm, *Latin.*

C. C. Peters, *Education.*

O. K. Boring, *French and Spanish.*

J. C. Hodges, *English.*

J. De L. Ferguson, *English.*

M. S. Allen, *English.*

C. H. Skinner, *Physics.*

16 Instructors, 2 Lecturers, 2 Fellows.

### SCHOOL OF MUSIC.

#### Professors :

H. Whitehouse, *Music.*

J. W. Parker „

8 Instructors.

### SCHOOL OF FINE ARTS.

#### Professor :

C. A. Nelson (Miss), *Art History.*

4 Instructors.

**DELHI (India).****ST. STEPHEN'S COLLEGE**, Kashmir Gate, Delhi. (1882.)

Affiliated to the University of the Panjab, Lahore.

*Terms* : Three a year.*Students* : 240.**OFFICIALS.***Principal*.—S. K. Rudra, M.A.*Vice-Principal*.—Rev. P. N. F. Young.*Bursar*.—S. N. Mukerji, M.A.**LECTURERS.**C. B. Young, *English*.

G. H. C. Sharp „

W. F. Ireland „

M. Sharp (Mrs.), *English*.L. D. Shastri, *Sanskrit*.A. Rahman, *Arabic*.A. Ali, *Persian*.S. H. Thomas, *Mathematics*.S. N. Mukarji, *Mathematics*.K. Ram, *Physics*.J. N. Mitra, *Chemistry*.N. K. Sen, *Philosophy*.P. N. F. Young, *History*.

S. Bhathacharya „

S. K. Rudra, *Economics*.**HINDU COLLEGE**, Delhi, Punjab, India. (1899.)

Affiliated to the University of the Punjab, Lahore.

**OFFICIAL.***Principal*.—N. V. Thadani, M.A.**LADY HARDINGE MEDICAL COLLEGE**, Raisina, Delhi. (1916.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 100.**OFFICIALS.***Principal*.—Miss K. A. Platt, M.D.*Superintendent of Nurses*.—Miss L. Mackenzie.**PROFESSORS.**K. A. Platt (Miss), *Medicine*.C. L. Houlton (Miss), *Gynecology and*  
*Midwifery*.M. C. Murphy (Miss), *Anatomy*.M. R. N. Holmer (Miss), *Physiology*.H. M. Franklin (Miss), *Surgery*.M. B. Stogden (Miss), *Pathology*.A. M. Bain (Miss), *Chemistry*.L. M. Hett (Miss), *Botany and Zoology*.P. M. Borthwick (Miss), *Mathematics*  
*and Physics*.

2 Lecturers, 1 Demonstrator.

**RAMJAS COLLEGE**, Delhi, India. (1917.)

Affiliated to the University of the Punjab, Lahore.

**OFFICIALS.***President*.—Rai Sahib Lala Kedar Nath, M.A.*Principal*.—A. T. Gidvani, M.A.**PROFESSORS.**A. T. Gidvani, *English and History*.N. D. Gurbaxani, *Philosophy and*  
*History*.L. D. Keswani, *English*.K. Lal, *Mathematics and Sanskrit*.

2 Lecturers.

**DENVER (Colorado).****UNIVERSITY OF DENVER.** No particulars received.

## DES MOINES (Iowa).

IOWA ACADEMY OF SCIENCE, Des Moines, Iowa.

## OFFICIALS.

*President.*—Prof. T. C. Stephens, Morningside College, Sioux City.*First Vice-President.*—Prof. Nicholas Knight, Cornell College, Mt. Vernon.*Second Vice-President.*—Prof. D. W. Morehouse, Drake University, Des Moines.*Secretary.*—Dr. James H. Lees, Iowa Geological Survey.*Treasurer.*—Prof. A. O. Thomas, State University, Iowa City.

The Academy holds a meeting each year in April. The papers presented at these meetings are published annually in the Proceedings of the Academy. Officers are elected for one year, although the Secretary and Treasurer are usually re-elected several times. There are six classes of members: Life Fellows, Fellows, Associates, Corresponding Fellows, Honorary Fellows, and Corresponding Associates. Fellows and Associates are elected from residents of Iowa. Fellows and Associates removing from the state become corresponding Fellows and Associates, respectively. Honorary Fellows are chosen from the distinguished scientists of this or other states.

DIOCESAN TRAINING COLLEGE. See BALIGANI.

DROPSIE COLLEGE. See PHILADELPHIA.

## DUBLIN (Ireland).

TRINITY COLLEGE, Dublin, Ireland. (1591.)

(University of Dublin.)

The University of Dublin and Trinity College are for all practical purposes one and the same body, though each has its own seal. The University is a residential one.

The professorial degrees are conferred only on those who have obtained the Bachelor of Arts degree, so that the Dublin degrees are a guarantee of a high general as well as a specialized education.

*Terms:* Three a year.*Students:* 1,300.

## OFFICIALS.

*Visitor.*—The Chancellor, the Earl of Iveagh, K.P., G.C.V.O., F.R.S., LL.D.*Provost.*—The Rt. Hon. and Most Rev. J. H. Bernard, D.D.*Vice-Provost.*—Rev. T. T. Gray, M.A., S.F., T.C.D.*Senior Lecturer.*—Rev. W. R. W. Roberts, D.D., S.F., T.C.D.*Auditor.*—G. L. Cathcart, M.A., S.F., T.C.D.*Public Orator.*—R. W. Tate, M.A.*Bursar.*—L. C. Purser, Litt.D., S.F., T.C.D.*Senior Dean and Catechist.*—F. A. Tarleton, LL.D., Sc.D., S.F., T.C.D.*Senior Proctor.*—M. W. J. Fry, M.A., S.F., T.C.D.*Registrar.*—E. P. Culverwell, M.A., S.F., T.C.D.

## Degrees conferred :

*Degrees.**Hoods.*

B.A.	- -	Black, lined with rabbit skin.
B.A.O.	- -	Black silk, lined olive.
B.Ch.	- -	
B.E.	- -	Black, lined with green.
B.Sc.	- -	Black silk, lined gold-coloured silk.
D.Litt.	- -	Scarlet cloth, lined white silk.
D.Sc.	- -	Scarlet cloth, lined blue silk.
LL.B.	- -	Black silk, faced white.
LL.D.	- -	Scarlet cloth, lined with pink silk.
M.A.	- -	Black silk, lined blue silk.
M.A.O.	- -	Black silk, lined and faced purple.
M.E.	- -	White silk, lined green.
M.B.	- -	Black silk, faced scarlet.
M.Ch.	- -	Red silk, lined white, faced blue.
M.D.	- -	Scarlet cloth, lined scarlet silk.
Mus.B.	- -	Blue silk, lined with rabbit skin.
Mus.D.	- -	White figured silk, lined rose-coloured satin.



## PROFESSORS.

## ARTS.

## Professors :

- W. F. Trench, *English Literature*.  
 W. E. Thrift, *Natural Philosophy*.  
 W. A. Goligher, *Ancient History and Classical Archeology*.  
 W. A. Philips, *Modern History*.  
 C. F. Bastable, *Political Economy*.  
 H. S. Maeran, *Moral Philosophy*.  
 R. M. Gwynn, *Biblical Greek*.  
 T. F. O'Rahilly, *Irish*.  
 Sir L. W. King, *Arabic and Hindustani*.  
 H. Canning, *Sanskrit*.  
 J. V. S. Pope, *Modern East Indian Languages*.  
 (Vacant), *Education*.  
 P. C. Buck, *Music*.  
 G. Waterhouse, *German*.  
 T. D. Rudmoss-Brown, *Romance Languages*.  
 J. G. Smyley, *Greek*.  
 E. Curtis, *Modern History*.  
 G. Wilkins, *Hebrew*.

## Junior Fellows who Lecture in Arts:

- R. Russell.  
 M. W. J. Fry.  
 G. Wilkins.  
 H. S. Maeran.  
 E. J. Gwynn, *Junior Bursar*.  
 G. A. Exham.  
 W. E. Thrift.  
 J. G. Smyley.  
 G. W. Mooney.  
 W. Kennedy.  
 R. A. P. Rogers.  
 W. A. Goligher.  
 J. Frazer.  
 E. H. Alton.  
 R. M. Gwynn, *Hon. Chaplain*.  
 G. R. Webb.  
 R. W. Tate, *Junior Dean*.  
 H. Thrift.  
 H. Canning.  
 A. A. Luce.  
 J. Johnston.  
 J. M. Henry.  
 F. La Touche Godfrey.  
 J. Joly.

## Readers :

- J. V. S. Pope, *Tamil, Burmese, Hindu, Bengali, and Marathi*.  
 Sir L. W. King, *Indian History*.

## Lecturers :

- R. W. Tate, *Classical Composition*.  
 E. J. Gwynn, *Celtic Languages*.  
 G. Waterhouse, *Anglo-Saxon*.  
 E. Deane (Miss), *French*.  
 R. W. Tate, *Russian*.  
 T. B. Rudmoss-Brown, *Spanish and T. Johnston, Ancient History*.  
 C. E. Maxwell (Miss), *Modern History*.  
 J. M. Henry, *Education*.

## SCIENCE.

## Professors :

- H. C. Plummer, *Astronomy*.  
 S. Young, *Chemistry*.  
 H. H. Dixon, *Botany*.  
 E. A. Werner, *Applied Chemistry*.  
 J. Joly, *Geology and Mineralogy*.  
 M. W. J. Fry, *Natural Philosophy*.  
 R. Russell, *Mathematics*.

## Lecturers :

- R. A. F. Rogers, *Mathematics*.  
 C. H. Rowe  
 J. L. Synge  
 H. Thrift, *Experimental Science*.  
 H. H. Poole  
 W. C. Ramsden, *Chemistry*.  
 W. R. G. Atkins, *Botany*.  
 L. B. Smythe, *Geology and Paleontology*.  
 J. R. Cotter

## Professors :

## LAW.

- C. F. Bastable, *Civil Law*.  
 J. S. Baxter, *Feudal and English Law*.  
 W. Lowry, *Penal Law*.

## MEDICINE AND DENTISTRY.

## Professors :

- J. M. Purser, *Physic*.  
 E. H. Taylor, *Surgery*.  
 A. F. Dixon, *Anatomy and Surgery*.  
 T. E. Gordon, *Surgery*.  
 H. W. Mackintosh, *Comparative Anatomy and Zoology*.  
 E. H. Taylor, *University Anatomist*.  
 J. Craig, *Medicine*.  
 W. G. Smith, *Materia Medica*.  
 H. Pringle, *Physiology*.  
 T. H. Wilson, *Midwifery*.  
 A. Slotess, *Bacteriology and Preventive Medicine*.  
 Sir R. H. Woods, *Laryngology and Otolology (Hon.)*.  
 W. Beatty, *Dermatology (Hon.)*.

## Lecturers :

- A. C. O'Sullivan, *Pathology*.  
 A. W. W. Baker, *Dental Surgery and Pathology*.  
 J. Cockburn, *Dental Mechanics*.  
 E. S. Friel, *Orthodontia*.  
 T. P. C. Kirkpatrick, *Anæsthetics*.  
 Col. G. Holmes, *Ophthalmology*.

## Lecturer :

- H. T. Bewley, *Medical Jurisprudence*.

## ENGINEERING.

## Professor :

- T. Alexander.

## Lecturers :

- J. Frazer, *Mechanics*.  
 J. T. Jackson, *Civil Engineering*.  
 W. E. Lilly, *Mechanical Engineering*.  
 G. M. Harris, *Electric Traction*.  
 W. Tatlow, *Electrical Engineering*.

### THEOLOGY.

#### Professors :

Rev. H. A. McNeile, *Divinity* (Regius).  
J. G. F. Day, *Pastoral Theology*.  
Rev. H. J. Lawlor, *Ecclesiastical History*.

#### Professors—Continued :

N. J. White, *Divinity* (King's).

#### Lecturers :

J. A. Jennings, *Elocution*.  
Rev. R. M. Gwynn, *Divinity*.  
Rev. A. A. Luce      „

**Post-Graduate Courses.**—In all departments.

**Library.**—The Library is continually increased by copies of every book published in England. This privilege it enjoys by Act of Parliament, 54 Geo. III., cap. 156. The number of volumes, including MSS., is over 360,000.

The Lecky Library, presented to Trinity College by Mrs. Lecky, consists of about 6,000 volumes, and the books may be lent to students on the recommendation of the Professors. There is also a lending library, which contains a number of volumes intended for the use of students. *Librarian* : J. G. Smyly, Litt.D.

**Museums.**—There is a large museum of Geology and Mineralogy, and another of Anatomy and Zoology, and there are Departmental Museums in connection with the Medical and Engineering School.

The Astronomical Observatory of Dunswick is owned and supported by the College.

There are several Student Societies, the College Historical Society being the most renowned; it is a reconstruction of the Debating Club founded by Edmund Burke in 1747.

### AFFILIATED INSTITUTION.

McCrea Magee College, Londonderry.

### NATIONAL UNIVERSITY OF IRELAND, Dublin, Ireland. (1909.)

Constituent Colleges: University College, Dublin; University College, Cork;  
University College, Galway.

*Terms* : Three a year.

#### OFFICIALS.

*Chancellor.*—His Grace the Most Rev. W. J. Walsh, D.D., Archbishop of Dublin.

*Vice-Chancellor.*—D. G. Coffey, M.A., M.B., B.Ch., B.A.O., LL.D., President University College, Dublin.

*Registrar.*—Sir Joseph McGrath, LL.D.

#### Degrees conferred :

##### Degrees.

- |           |   |  |
|-----------|---|--|
| Bachelor  | - | Dark green Irish poplin, lined throughout with poplin of faculty colour.                         |
| B.D.S.    | - | Which is lined with silver grey, edge to have one inch scarlet.                                  |
| Master    | - | Dark green Irish poplin, lined white poplin edged with three inches of poplin of faculty colour. |
| M.A.      | - | Lined white, edged three inches blue.  |
| M.A.O.    | - | Lined white, edged three inches scarlet, one inch gold.  |
| M.D.S.    | - | Lined white, three inches silver grey, one inch scarlet.   |
| M.Sc.P.H. | - | Lined white, edge 3 inches silver lilac, one inch scarlet.                                       |
| Doctor    | - | Dark green Irish poplin, lined throughout with poplin of faculty colour.                         |

##### Hoods.

**Professor** : Rev. Peter Finley, *Catholic Theology*.

### UNIVERSITY COLLEGE, Dublin, Ireland. (1850.)

*Terms* : Three a year.

#### OFFICIALS.

*President.*—D. J. Coffey, M.A., M.B., B.Ch., B.A.O., LL.D.

*Registrar.*—A. W. Conway, M.A., D.Sc., F.R.S.

*Secretary and Bursar.*—J. W. Bacon, M.A.

*Librarian.*—J. J. O'Neill.

**Degrees conferred** (by the National University of Ireland).—B.A., B.Mus., M.A., D.Litt., D.Mus., D.Litt.Celt. (Doctor of Celtic Studies), B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc., LL.B., LL.D., M.B., B.Ch., B.A.O. (Bachelor of Obstetrics), B.Sc., Pub. Health, M.Ch., M.A.O., M.D., D.Sc., Pub. Health, B.D.S. (Bachelor of Dental Surgery), M.D.S., B.E., B.Arch., M.E., M.Arch., B.Comm., M.Comm., Ph.D.

## PROFESSORS:

## Professors :

- Rev. H. Browne, *Greek*.  
 P. Semple, *Latin*.  
 H. C. M'Weeney, *Mathematics*.  
 R. Donovan, *English Literature*.  
 Rev. G. O'Neill, *English Language and Philology*.  
 R. Chauvire, *French and Romance Philology*.  
 J. M. O'Sullivan, *History*.  
 Rev. T. Corcoran, *Theory and Practice of Education*.  
 Rev. M. Cronin, *Ethics and Politics*.  
 Rev. J. Shine, *Logic and Psychology*.  
 W. Magennis, *Metaphysics*.  
 R. A. Stewart Macalister, *Celtic Archeology*.  
 O. Bergin, *Early and Medieval Irish*.  
 D. Hyde, *Modern Irish Language and Literature*.  
 J. McNeill, *Early, including Medieval Irish, History*.  
 H. Ryan, *Chemistry*.  
 H. J. Seymour, *Geology*.  
 J. A. McClelland, *Experimental Physics*.  
 A. W. Conway, *Mathematical Physics*.  
 G. Sigerson, *Zoology*.  
 E. P. M'Loughin, *Anatomy*.  
 B. J. Collingwood, *Physiology and Histology*.  
 E. J. M'Weeney, *Pathology and Bacteriology*.  
 J. N. Meenan, *Hygiene and Medical Jurisprudence*.  
 M. Dempsey, *Materia Medica and Therapeutics*.  
 J. F. O'Carroll, *Medicine*.

## Professors Continued :

- A. J. Smith, *Midwifery and Gynecology*.  
 J. S. M'Ardle, *Surgery*.  
 J. A. Murnaghan, *Jurisprudence and Roman Law*.  
 J. G. S. MacNeill, *Constitutional Law and the Law of Public and Private Wrongs, and Law of Evidence*.  
 A. E. Clery, *The Law of Property and the Law of Contracts*.  
 P. F. Purcell, *Civil Engineering*.  
 C. H. Oldham, *National Economics of Ireland*.  
 Rev. T. A. Finlay, *Political Economy*.  
 W. A. Scott, *Architecture*.  
 B. F. Shields, *Commerce*.  
 M. M. Macken (Mrs.), *German*.  
 J. B. Butler, *Botany*.  
 M. T. Hayden (Miss), *Modern Irish History*.  
 L. Werner, *Ophthalmology*.  
 J. I. Potter, *Dental Mechanics*.  
 E. Sheridan, *Dental Surgery*.  
 M. Degani (Miss), *Italian and Spanish*.  
 Rev. P. Boylan, *Eastern Languages*.  
 J. L. Jones, *Welsh*.  
 C. H. Kitson, *Music*.  
 R. O'Dwyer, *Irish Music*.

## Lecturers :

- D. O'Connor, *Accountancy*.  
 F. L. Leet, *Banking and Finance*.  
 J. J. Dowling, *Experimental Physics*.  
 Rev. M. F. Egan, *Pure Mathematics*.  
 W. M. Crofton, *Special Pathology*.  
 A. M. W. O'Farrelly (Miss), *Irish Language*.  
 J. J. Webb, *Municipal History*.

ROYAL COLLEGE OF PHYSICIANS OF IRELAND, 6, Kildare Street, Dublin.  
 (1654.)

## OFFICIALS.

- President*.—James Craig, M.D.  
*Vice-President*.—Alfred Parsons, M.D.  
*Censors*.—S. T. Gordon, F.R.C.P.I.; A. R. Parsons, M.D.; S. Sheill, F.R.C.P.I.; W. Boxwell, M.D.  
*Registrar*.—T. P. C. Kirkpatrick, M.D.  
*Treasurer*.—Henry T. Bewley, M.D.

Degrees conferred.—F.R.C.P.I., M.R.C.P.I., L.R.C.P.I., L.M.R.C.P.I., D.P.H.R.C.P. and S.I.

## Robes.—

- For Licentiates: B.A. Gown with 3-inch facings of Czar violet poplin silk.  
 For Members: M.A. Gown with 4-inch facing, and collar of Czar violet poplin silk.  
 For Fellows: M.D. Gown in black velveteen with purple collar and facings; the latter to be 9 inches in width—i.e., 4½ inches showing.  
 In the case of University Graduates, the hood of the respective degrees to be also worn on special occasions.

PROFESSORS.

SCHOOL OF PHYSIC.

King's Professors :

J. Craig, *Practice of Medicine*.  
 W. G. Smith, *Materia Medica and Pharmacy*.  
 T. H. Wilson, *Midwifery*.  
 H. Pringle, *Institutes of Medicine*.

SCHOOL OF SURGERY.

Professors :

F. C. Purser, *Medicine*.  
 E. H. Tweedy, *Midwifery*.  
 R. T. Smith, *Materia Medica, Therapeutics and Pharmacy*.

**Library.**—Library founded under the will of the late Sir Patrick Dun, M.D., Physician General to the Army in Ireland, in the year 1713. Lending and Reference Library, about 13,000 volumes. *Librarian* : Robert Phelps.

ROYAL COLLEGE OF SCIENCE FOR IRELAND, Merrion Street, Dublin. (1845.)

*Terms* : Three per year.

OFFICIALS.

*Dean.*—H. H. Jeffcott, B.A.I., M.I.Mech.E.

*Registrar.*—P. A. E. Dowling, B.A., B.Sc.

**Degrees conferred.**—A.R.C.Sc.I. and F.R.C.Sc.I.

PROFESSORS.

J. Wilson, *Agriculture*.  
 A. Henry, *Forestry*.  
 T. Johnson, *Botany*.  
 W. E. Adeney, *Chemistry*.  
 G. A. J. Cole, *Geology*.

H. H. Jeffcott, *Engineering*.  
 W. McF. Orr, *Mathematics*.  
 G. H. Carpenter, *Zoology*.  
 W. Brown, *Physics*.

6 Lecturers, 6 Demonstrators, and 7 Assistant Demonstrators.

The Academic Costume for Associates is a Bachelor's gown of black stuff, a Graduate's cap, and a hood of purple Irish poplin, lined with St. Patrick's blue; the neck-band of Irish poplin edged with St. Patrick's blue; the faculty or group of courses in which the Associateship has been obtained is indicated by the colour of the neck-band as follows: green, Faculty of Agriculture; blue, Faculty of Applied Chemistry; grey, Faculty of Engineering; and purple, Science Teachers' Courses.

The Academic Costume for Fellows is a Doctor's gown of black silk or poplin, with purple facings, saffron buttons, and St. Patrick's blue loops; a cap of beef-eater type, with a cord of St. Patrick's blue and saffron twisted; and a hood as for Associates, except that the neck-band is of saffron, edged with St. Patrick's blue.

**Societies.**—Students' Union, Scientific and Debating Society, Agricultural Debating Society, Chemical Society, Engineering Society.

The Library contains 25,000 volumes, 10,000 pamphlets, and many maps. *Librarian* : J. Condon.

ROYAL DUBLIN SOCIETY, Leinster House, Dublin. (1731.)

OFFICIALS.

*President.*—Rt. Hon. Lord Rathdonnell.

*Honorary Secretaries.*—Sir Joseph McGrath; Bertram H. Barton.

*Registrar.*—Richard J. Moss.

*Agricultural Superintendent.*—Edward Bohane.

*Librarian and Editor of Scientific Publications.*—Arthur H. Foord.

Library, about 50,000 volumes.

**Publications.**—

"Transactions" (chiefly agricultural), Vol. I.-VI., 1799-1810 (out of print).

"Journal," Vol. I.-VII. (the last), 1856-1876, 8vo.

"Scientific Transactions" (Ser. II.), Vol. I.-IX. (the last), 1877-1908, 4to.

"Scientific Proceedings," Vol. I.-XV. (in progress), 1877-1919, 8vo.

"Economic Proceedings," Vol. I.-II. (in progress), 1899-1919, 8vo.



**ROYAL IRISH ACADEMY**, 19, Dawson Street, Dublin. (1785.)

**OFFICERS.**

*President.*—Right Hon. and Most Rev. J. H. Bernard, D.D., D.C.L.,  
Provost of Trinity College, Dublin.

*Treasurer.*—Rev. W. R. W. Roberts, D.D.

*Secretary.*—J. A. McClelland, Sc.D., F.R.S.

*Secretary of Council.*—Rev. H. J. Lawlor, D.D., Litt.D.

*Librarian.*—R. Ll. Praeger, B.E.

*Secretary for Foreign Correspondence.*—E. J. Gwynn, M.A.

*Resident Secretary.*—R. Macalister, M.A., LL.D.

**Membership.**—Not more than seven Members can be elected in one year, at the stated meeting in March.

**Publications.**—

The Academy's Publications include "Transactions" (Vols. I.-XXXIII.),  
"Proceedings" (Vols. I.-XXXV.) in three sections.

Section A: Mathematical, Astronomical, and Physical Sciences.

Section B: Biological, Geological, and Chemical Sciences.

Section C: Archeology, Linguistic, and Literature.

Also Cunningham Memoirs (Vols. I.-XI.), Todd Lecture Series (Vols. I.-XVII.), Irish Facsimiles (Folio).

**PHARMACEUTICAL SOCIETY OF IRELAND**, 67, Lower Mount Street, Dublin.  
(1875.)

*Registrar.*—A. T. Ferrall.

*Head of Chemistry School.*—Prof. H. Normenton.

*Head of Botany School.*—W. H. Hopkins Ashmore.

*Head of Materia Medica School.*—P. O'Connor.

**DUNEDIN (New Zealand).**

**UNIVERSITY OF OTAGO**, Dunedin, New Zealand. (1869.)

An affiliated Institution of the University of New Zealand (q.v.).

*Terms* : Three per year.

**OFFICIALS.** See **NEW ZEALAND UNIVERSITY.**

**Degrees and Hoods.**—See **NEW ZEALAND UNIVERSITY.**

**PROFESSORS.**

**Professors :**

T. Gilray, *English Language and Literature*.  
W. B. Benham, *Biology*.

J. Park, *Mining and Mine and Land Surveying* (and Director of School of Mines).

J. Malcolm, *Physiology*.

(Vacant), *Pure and Applied Mathematics*.

H. P. Pickerill, *Dentistry* (and Director of Dental School).

(Vacant), *Practice of Medicine*.

H. L. Ferguson, *Ophthalmology* (and Dean of Medical Faculty).

(Vacant), *Medical Jurisprudence*.

L. E. Barnett, *Surgery*.

D. B. Waters, *Metallurgy and Assaying*.  
W. L. Boys-Smith (Miss), *Home Science and Domestic Arts*.

J. K. H. Inglis, *Chemistry*.

**Professors—Continued :**

S. T. Champtaloup, *Bacteriology and Public Health*.

R. Jack, *Natural Philosophy*.

F. W. Dunlop, *Mental and Moral Philosophy*.

W. P. Gowland, *Anatomy*.

A. M. Drennan, *Pathology*.

(Vacant), *Economics and History*.

G. E. Thompson, *Modern Languages*.

W. N. Benson, *Geology and Mineralogy*.

T. D. Adams, *Classics*.

**Lecturers :**

F. Truby King, *Mental Diseases*.

M. Watt, *Hebrew*.

W. G. Hay, *Jurisprudence*.

W. Newlands, *Surgery*.

F. R. Riley, *Midwifery and Gynecology*.

F. W. B. Fitchett, *Materia Medica*.

J. Lang, *Constitutional History*.



Lecturers—Continued :

- A. A. Finch, *Property, Part I.*  
 C. G. White, *Procedure and Property, Part II.*  
 J. B. Calan, *Torts.*  
 C. N. Scurr, *Criminal Law.*  
 A. C. Stephens, *Contracts.*  
 H. S. Adams, *Evidence.*  
 G. H. Rawson, *Household Economics, Applied Chemistry, etc.*

Lecturers—Continued :

- G. W. Reid, *Accountancy.*  
 E. Pinder, *Education.*  
 E. H. Williams, *Diseases of Children.*  
 A. J. Hall, *Ear, Nose, and Throat.*  
 The Honorary Staff of the Dunedin Hospital, *Clinical Medical and Clinical Surgery.*  
 6 Assistants, 2 Tutors.

DURHAM.

UNIVERSITY OF DURHAM, Durham, England. (1832.)

Including: Durham Colleges at Durham.  
 College of Medicine at Newcastle-on-Tyne.  
 Armstrong College at Newcastle-on-Tyne.

*Terms* : Three per year.

*Students* : 1,498.

OFFICIALS.

*Chancellor.*—The Right Hon. The Earl of Durham, K.G., G.C.V.O., D.C.L.

*Vice-Chancellor.*—David Drummond, M.A., D.C.L.

*Pro-Vice-Chancellors.*—

J. S. G. Pemberton, M.A., D.C.L.; Sir T. Morrison, K.C.S.I., K.C.I.E., M.A.;

F. B. Jevons, M.A., D.Litt.

*Registrar.*—H. G. Theodosius, M.A., B. es L.

*Treasurer.*—F. W. Ritson, M.A.

Degrees conferred :

*Degrees.*

*Hoods.*

- |           |   |   |
|-----------|---|---|
| D.D. -    | - | Scarlet cassimere, lined with palatinate purple silk.   |
| B.D. -    | - | Black corded silk, lined with black silk.   |
| M.A. -    | - | Black silk, lined with palatinate purple silk.  |
| B.A. -    | - | Black stuff, trimmed with white fur.  |
| D.C.L. -  | - | Scarlet cassimere, lined with white silk.   |
| B.C.L. -  | - | Palatinate purple silk, bound with white fur.   |
| M.D. -    | - | Scarlet cassimere, lined with scarlet silk, faced with palatinate purple silk.                                      |
| M.B. -    | - | Scarlet silk, lined with palatinate purple silk, and bound with white fur.  |
| M.S. -    | - | Rose silk, lined with palatinate purple silk.   |
| B.S. -    | - | Rose silk, lined with palatinate purple silk, bound with white fur.   |
| D.Hy. -   | - | Scarlet cloth, lined with scarlet silk, faced with palatinate purple and white silk.                                |
| B.Hy. -   | - | Black silk, faced with palatinate purple and scarlet silk, and bound with white fur.                                |
| D.Sc. -   | - | Palatinate purple cassimere, lined with scarlet silk.   |
| M.Sc. -   | - | Black silk, lined with palatinate purple silk, and bound with scarlet silk half an inch wide both sides.            |
| B.Sc. -   | - | Palatinate purple silk, bound with white fur, and with a scarlet band half an inch wide next to the fur.            |
| D.Litt. - | - | Scarlet cassimere, lined with old gold satin.   |
| M.Litt. - | - | Black corded silk, lined with old gold satin.   |
| B.Litt. - | - | Old gold satin, edged with fur.   |
| Mus.D. -  | - | Brocaded white satin, lined with palatinate purple silk.  |
| Mus.B. -  | - | Palatinate purple silk, bound with brocaded white satin one inch wide.  |
| M.Com. -  | - | Black silk, lined with cerise silk.   |
| B.Com. -  | - | Black silk, lined with cerise silk, and edged with white fur.   |
| L.Th. -   | - | Black stuff, faced with velvet, and bound with palatinate purple silk, quarter-inch wide, and velvet one inch wide. |
| Ph.D. -   | - | Scarlet cassimere, lined with scarlet silk and bound on all edges with palatinate silk one inch wide.               |

## PROFESSORS.

## DURHAM COLLEGES.

## Professors :

- Rev. D. Walker, *Divinity and Ecclesiastical History*.  
 Rev. H. Cruickshank, *Greek and Classical Literature*.  
 P. J. Heawood, *Mathematics*.  
 Ven. H. W. Watkins, *Hebrew*.  
 F. B. Jevons, *Philosophy*.  
 Rev. H. Ellershaw, *English Language and Literature*.  
 Rev. J. H. How, *Latin*.  
 A. Robinson, *Logic and Psychology*.  
 C. F. Herdener, *Modern Languages*.  
 J. C. Bridge, *Music*.

## Lecturers :

- J. L. Burehnall, *Mathematics*.  
 (Vacant), *History*.  
 Rev. E. G. Pace, *Theology and Hebrew*.  
 W. D. Lowe, *Classics*.  
 (Vacant), *Education*.  
 C. L. Wrenn, *English*.  
 (Vacant), *Economics*.  
 Captain A. A. Macfarlane-Grieve, *Military Science*.  
 F. Sargent, *Astronomy and Observer*.

## COLLEGE OF MEDICINE.

## Professors :

- D. Drummond, *Principles and Practice of Medicine*.  
 Sir Thomas Oliver, *Principles and Practice of Medicine*.  
 J. Middlemass, *Psychological Medicine*.  
 J. R. Morrison, *Surgery*.  
 H. B. Angus  
 R. P. R. Lyle, *Midwifery and Gynecology*.  
 J. D. Wardale, *Ophthalmology*.  
 T. Beattie, *Therapeutics*.  
 S. McDonald, *Pathology and Clinical Pathology*.  
 H. J. Hutchens, *Comparative Pathology and Bacteriology*.  
 R. A. Bolam, *Medical Jurisprudence*.  
 T. E. Hill, *Public Health*.  
 W. E. Hume, *Materia Medica and Pharmacology*.  
 R. Howden, *Anatomy*.  
 J. A. Menzies, *Physiology*.

**Post-Graduate Courses.**—Doctor of Philosophy (Ph.D.), Bachelor of Divinity (B.D.), Diploma in Theology (Dip.Th.), Diploma in Public Health (D.P.H.), Diploma in the Theory and Practice of Teaching (D.Th.P.T.).

**Libraries.**—38,000 volumes, including Lightfoot, Maltby, Routh and Winterbottom collections. *University Librarian* : E. V. Stocks.

## Lecturers :

- G. G. Turner, *Surgery*.  
 S. S. Whillis, *Diseases of the Throat, Nose, and Ear*.  
 R. A. Bolam, *Diseases of the Skin and Clinical Dermatology*.  
 O. W. Ogden, *Diseases of Children*.  
 F. H. A. Clayton, *Comparative Pathology and Bacteriology*.  
 J. Clay, *Applied Anatomy*.

## ARMSTRONG COLLEGE.

## Professors :

- C. M. Jessop, *Mathematics*.  
 T. H. Havelock, *Applied Mathematics and Mathematical Physics*.  
 H. Stroud, *Physics*.  
 P. P. Bedson, *Chemistry*.  
 S. Smiles, *Organic Chemistry*.  
 T. F. Sibly, *Geology*.  
 A. Meek, *Zoology*.  
 M. C. Potter, *Botany*. [Economy.  
 D. A. Gilehrst, *Agriculture and Rural*  
 R. L. Weighton, *Engineering*.  
 J. J. Welch, *Naval Architecture*.  
 W. M. Thornton, *Electrical Engineering*.  
 H. Louis, M.A., *Mining and Surveying*.  
 J. W. Duff, *Classics and Ancient History*. [Literature.  
 A. Mawer, *English Language and*  
 K. H. Vickers, *Modern History*.  
 T. Loveday, *Mental and Moral Philosophy*.  
 A. G. Latham, *Modern Languages*.  
 H. M. Hallsworth, *Economics*.  
 M. R. Wright, *Education*.  
 R. G. Hatton, *Fine Art*.

## Lecturers :

- G. W. Caunt, *Mathematics*.  
 H. Morris-Airey, *Physics*.  
 F. C. Garrett, *Chemistry*.  
 J. A. Smythe  
 D. Woolacott, *Geology*.  
 A. D. Peacock, *Zoology*.  
 S. Mangham, *Botany*.  
 F. P. Walter, *Agriculture*.  
 J. Morrow, *Engineering*.  
 W. W. Firth, *Electrical Engineering*.  
 F. H. Alexander, *Naval Architecture*.  
 H. Dean, *Mining and Surveying*.  
 S. Wragge (Miss), *English Literature*.  
 G. H. Thomson, *Education*.

## AFFILIATED INSTITUTIONS.

- Codrington College, Barbados.  
 Fourah Bay College, Sierra Leone.

**DURHAM (New Hampshire).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—J. C. Kendall.

**DYAL SINGH COLLEGE.** See LAHORE.

**EAST LANSING (Michigan).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—R. S. Shaw.

**EASTON (Pennsylvania).**

**LAFAYETTE COLLEGE,** Easton, Pa. (1832.)

*Terms :* Two per year.

*Budget :* 1917-18, \$153,912. 66

*Students :* 1916-17, 634; 1917-18, 448; 1918-19, 462; 1919-20, 704.

**OFFICIALS.**

*President.*—John H. MacCracken, Ph.D., LL.D.

*Dean of the College.*—Albert K. Heckel, Ph.D.

*Dean of the Pardee Scientific Department.*—Edward Hart, Ph.D.

*Registrar.*—W. Maekay Smith, Ph.D.

*Bursar.*—Albert M. Lane, Ph.B.

*Clerk of the Faculty.*—William S. Hall.

**Degrees conferred.**—A.B., B.S., B.S. in Civil Engineering, B.S. in Chemical Engineering, B.S. in Electrical Engineering, B.S. in Mechanical Engineering, B.S. in Mining Engineering, B.S. in Chemistry.

Two-year pre-medical course not leading to a degree.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

F. A. March, jr., *English Language.*

J. W. Tupper, *English Literature.*

E. M. Rankin, *Greek.* [ophy.

S. A. Martin, *Mental and Moral Philos.*

C. D. Fehr, *Modern Languages.*

A. K. Heckel, *History.*

J. H. S. Bossard, *Government and Eco-*

H. McA. Robinson, *Bible.* [nomics.

J. R. Crawford, *Latin.*

**Assistant Professor :**

J. B. Hopkins, *Romance Languages.*

**FACULTY OF SCIENCE.**

**Professors :**

W. S. Hall, *Mathematics.*

E. M. Green, *Consulting Physician, Department of Physical Training.*

F. B. Peck, *Mineralogy and Geology.*

C. McC. Gordon, *Physics.*

W. M. Smith, *Mathematics.*

B. W. Kunkel, *Biology.*

E. C. Bingham, *Chemistry.* [Tactics.

W. F. Fos, *Military Science and*

**Associate Professors :**

J. H. Wilson, *Chemistry.*

H. C. Chapin, *Chemistry.*

**Assistant Professors :**

W. T. Foster, *Biology.*

D. A. Hatch, *Mathematics.*

J. H. DeLong, *Chemistry.*

H. J. Lockwood, *Physics.*

J. Cawley, *Mathematics.*

**FACULTY OF ENGINEERING.**

**Professors :**

E. Hart, *Chemical Engineering.*

A. H. Fuller, *Civil Engineering.*

D. B. Prentice, *Mechanical Engineering.*

**Assistant Professors :**

W. B. Marquard, *Mining Engineering.*

H. T. Spengler, *Surveying and Railroad Engineering.*

H. M. Spandau, *Drawing.*

F. G. Allen, *Electrical Engineering.*

H. S. Roger, *Civil Engineering.*

R. S. Wilbur, *Mechanical Engineering.*

13 Instructors and a Director of Physical Training.

**Post-Graduate Courses.**—A.M., M.S.

**Libraries.**—

Van Wickle Library, 45,000 volumes.

Oliver Library, 2,500 volumes.

Literary Societies, 5,000 volumes.

**EDINBURGH.****UNIVERSITY OF EDINBURGH, Edinburgh. (1583.)***Terms* : Three per year.*Students* (1918-19): 3,554.**OFFICIALS.***Chancellor.*—Right Hon. Arthur J. Balfour, M.P., D.C.L., LL.D.*Vice-Chancellor and Principal.*—Sir James A. Ewing, K.C.B., M.A., LL.D.*Secretary.*—William Wilson, M.A., LL.B., Advocate.**Degrees conferred :***Degrees.*

LL.D.	-	-	Black cloth, with appended cape, lined with blue silk.
LL.B.	-	-	Black silk, lined with blue silk, bordered with white fur.
B.L.	-	-	Black silk, edged with blue silk three inches broad, trimmed with white fur.
D.D.	-	-	Black cloth, lined with purple silk.
B.D.	-	-	Black silk, lined with purple silk, bordered with white fur.
M.D.	-	-	Black cloth, with appended cape, lined and faced with crimson silk.
Ch.M.	-	-	Black velvet, lined with golden silk.
M.B. and Ch.B.	-	-	Black silk, lined with crimson silk, bordered with white fur.
D.Sc.	-	-	Black cloth, lined with green silk.
B.Sc.	-	-	Black silk, lined with green silk, bordered with white fur.
M.A.	-	-	Black silk, lined with white silk.
D.Litt.	-	-	Black cloth, lined with royal blue and maize shot silk.
D.Phil.	-	-	Black cloth, lined with Vesuvius and white shot silk.
Mus.D.	-	-	Rich scarlet cloth, with rich white corded silk lining.
Mus.B.	-	-	Scarlet silk, with white silk lining, edged with white fur.
Ed.B.	-	-	Black silk, lined with pale blue silk, edged with white fur.
B.Com.	-	-	Black Silk, lined with pale primrose yellow silk, edged with white fur.

*Hoods.***PROFESSORS.****FACULTY OF ARTS.****Professors :**

- H. J. C. Grierson, *Rhetoric and English Literature.*  
 O. L. Richmond, *Humanity.*  
 A. W. Mair, *Greek.*  
 A. B. Keith, *Sanskrit and Comparative Philology.*  
 W. J. Watson, *Celtic Languages, Literature, History, and Antiquities.*  
 C. Sarratea, *French.*  
 E. T. Whittaker, *German.*  
 C. G. Barkle, *German.*  
 N. K. Smith, *Logic and Metaphysics.*  
 J. Seth, *Moral Philosophy.*  
 Sir R. Lodge, *History.*  
 R. K. Hannay, *Ancient History and Paleography.*  
 J. S. Nicholson, *Commercial and Political Economy and Mercantile Law.*  
 G. B. Brown, *Fine Art.*  
 A. Darroch, *Theory, History, and Practice of Education.*

**FACULTY OF SCIENCE.****Professors :**

- E. T. Whittaker, *Mathematics.*  
 C. G. Barkla, *Natural Philosophy.*

**Professors—Continued :**

- R. A. Sampson, *Astronomy.*  
 J. Walker, *Chemistry.*  
 J. S. Ewart, *Natural History.*  
 I. B. Balfour, *Botany.*  
 T. J. Jehu, *Geology.*  
 T. H. Beare, *Engineering.*  
 R. Wallace, *Agriculture and Rural Economy.*

**FACULTY OF DIVINITY.****Professors :**

- W. P. Paterson, *Divinity.*  
 W. A. Curtis, *Biblical Criticism and Biblical Antiquities.*  
 J. Mackinnon, *Ecclesiastical History.*  
 A. R. S. Kennedy, *Hebrew and Semitic Languages.*

**FACULTY OF LAW.****Professors :**

- Sir L. J. Grant, *Public Law.*  
 J. Mackintosh, *Civil Law.*  
 J. H. Millar, *Constitutional Law and Constitutional History.*  
 J. Rankine, *Scots Law.*  
 J. L. Mounsey, *Conveyancing.*



FACULTY OF MEDICINE.

Professors :

- G. Barger, *Chemistry in Relation to Medicine*.  
 A. Robinson, *Anatomy*  
 Sir A. E. S. Schafer, *Physiology*.  
 J. L. Smith, *Pathology*.  
 A. R. Cushny, *Materia Medica*.  
 G. L. Gulland, *Medicine*.  
 H. A. Thomson, *Surgery*.  
 Sir J. H. Croom, *Midwifery*.  
 H. Littlejohn, *Forensic Medicine*.  
 Sir H. Stiles, *Clinical Surgery*.  
 G. L. Gulland, *Clinical Medicine*.  
 J. C. Meakins, *Clinical Medicine*.  
 F. D. Boyd, *Clinical Medicine*.  
 C. H. Stewart, *Public Health*.  
 J. Ritchie, *Bacteriology*.  
 Sir R. W. Philip, *Tuberculosis*.  
 J. C. Meakins, *Therapeutics*.

LECTURERS.

Lecturers :

- A. B. Webster, *Rhetoric and English Literature*.  
 G. Kitchin, *Rhetoric and English Literature*.  
 B. Dickins, *Rhetoric and English Literature*.  
 J. Mill, *Latin*.  
 J. F. Mountford, *Latin*.  
 (Vacant), *Greek*.  
 E. Robertson, *Arabic*.  
 C. Tweedie, *Mathematics*.  
 E. M. Horsburgh, *Mathematics*.  
 D. Gibb, *Mathematics*.  
 R. W. Brink, *Mathematics*.  
 G. Smeal, *Mathematics*.  
 A. E. Sprague, *Actuarial Science*.  
 G. G. Knott, *Applied Mathematics*.  
 G. A. Carse, *Natural Philosophy*.  
 J. R. Milne, *Natural Philosophy*.  
 H. S. Allen, *Natural Philosophy*.  
 R. P. Hardie, *Ancient Philosophy*.  
 J. Drever, *Psychology*.  
 H. Barker, *Moral Philosophy*.  
 M. Burns (Miss), *French*.  
 O. Schlapp, *German*.  
 H. F. Eggeling, *German*.  
 E. Grillo, *Italian*.  
 B. S. Cano, *Spanish*.  
 H. C. Brennan, *Russian*.  
 D. P. Heatley, *Ancient History (Greek and Roman)*.  
 G. G. Chisolm, *Geography*.  
 A. B. Lennie (Miss), *Geography*.  
 J. B. Guild, *Political Economy*.  
 W. H. Myles, *Realistic Economics*.  
 (Vacant), *Organization of Industry and Commerce*.  
 J. F. Rees, *Economic History*.  
 A. McNeil, *Banking (Charles Bruce Lectureship)*.

Lecturers—Continued :

- G. A. Carse, *Statistics and Mathematical Economics*.  
 J. Ewing, *Colonial and Indian History*.  
 D. Kennedy-Fraser, *Education*.  
 L. Dobbin, *Chemistry*.  
 J. E. Mackenzie, *Chemistry*.  
 S. A. Kay, *Chemistry*.  
 H. G. Rule, *Chemistry*.  
 A. M. Williams, *Chemistry*.  
 D. Balsillie, *Chemistry*.  
 J. D. M. Ross, *Chemistry*.  
 A. C. Cumming, *Technical Chemistry*.  
 R. Campbell, *Petrology*.  
 T. M. Finlay, *Paleontology*.  
 J. L. S. Smith, *Botany*.  
 R. W. Pealling, *Plant Physiology*.  
 W. G. Crail, *Forest Botany and Indian Forest Trees*.  
 M. Wilson, *Mycology and Bacteriology*.  
 W. W. Taylor, *Chemical Physiology*.  
 M. L. Walker (Miss), *Experimental Physiology*.  
 R. K. S. Lim, *Histology*.  
 A. N. Bruce, *Physiology of the Nervous System*.  
 W. H. Kerr, *Engineering Drawing and Structural Design*.  
 J. B. Todd, *Surveying and Hydraulics*.  
 W. Gordon, *Strength of Materials and Forest Engineering*.  
 H. C. Gardham, *Geometrical and Graphical Drawing*.  
 J. A. S. Watson, *Agriculture*.  
 J. L. Pike, *Forestry*.  
 D. C. Fergusson, *Forestry*.  
 R. Stewart MacDougall, *Agricultural Entomology and Forest Zoology*.  
 (Vacant), *Anthropology and Prehistoric Archaeology*.  
 O. C. Bradley, *Comparative Anatomy*.  
 G. F. Stout, *Gifford Lecturer on Natural Theology*.  
 Rev. C. Campbell, *Gunning Lecturer*.  
 D. O. Dykes, *International Private Law*.  
 W. J. Lewis, *Evidence and Procedure*.  
 (Vacant), *Landlord and Tenant*.  
 P. F. Wood, *Administrative Law*.  
 H. Aitken, *Mercantile Law*.  
 H. B. Murdoch, *English Law*.  
 W. G. Sym, *Diseases of the Eye*.  
 J. V. Paterson, *Diseases of the Eye*.  
 J. S. Fowler, *Clinical Instruction on Diseases of Children*.  
 J. Beard, *Comp. Embryology and Vertebrate Morphology*.  
 (Vacant), *Genetics*.  
 E. B. Jamieson, *Anatomy*.  
 F. E. Jardine, *Anatomy*.  
 W. Q. Wood, *Anatomy*.  
 W. C. Sillar, *Experimental Pharmacology*.  
 D. M. Lyon, *Practical Pathology*.



**Lecturers—Continued :**

J. Miller, *Morbid Anatomy*.  
J. M. Graham, *Surgical Pathology*.  
(Vacant), *Orthopedics*.  
A. L. Turner, *Diseases of the Larynx, Ear and Nose*.  
J. M. Farquharson, *Diseases of the Larynx, Ear and Nose*.  
Lt.-Col. D. G. Marshall, *Diseases of Tropical Climates*.  
N. Walker, *Clinical Instruction on Diseases of the Skin*.  
F. Gardiner, *Clinical Instruction on Diseases of the Skin*.  
A. James, *Infective Fevers*.  
C. B. Ker, *Infective Fevers*.  
J. W. Ballantyne, *Midwifery (to Women)*.  
A. H. F. Barbour, *Systematic and Clinical Gynecology*.  
N. T. Brewis, *Systematic and Clinical Gynecology*.  
J. H. Ferguson, *Systematic and Clinical Gynecology*.  
W. Fordyce, *Systematic and Clinical Gynecology*.  
J. D. Comrie, *History of Medicine*.

**CLINICAL SURGERY.**

<b>Senior Lecturers :</b>	<b>Lecturers :</b>
Prof. A. Thomson.	G. L. Chiene.
J. W. B. Hodsdon.	W. J. Stuart.
D. Wallace.	J. W. Struthers.
A. Miles.	H. Wade.
J. W. Dowden.	D. P. D. Wilkie.
A. A. S. Skirving.	J. Fraser.
	J. M. Graham.
	A. P. Watson.
	F. E. Jardine.

**CLINICAL MEDICINE.**

<b>Senior Lecturers :</b>	<b>Lecturers :</b>
Prof. Sir R. W. Philip.	E. Matthew.
R. A. Fleming.	W. T. Ritchie.
H. Rainy.	J. Eason.
D. C. Watson.	J. D. Comrie.
E. Bramwell.	A. Goodall.
	C. M'Neil.
J. J. Graham Brown,	<i>Neurology</i> .
H. Rainy,	<i>Physical Methods in the Treatment of Disease</i> .
M. Shirlaw,	<i>Music</i> .
56 Assistants.	

**Post-Graduate Courses** in Medicine and Surgery and in various Departments of the Faculties of Arts, Science and Divinity.

A notable development is the institution of Post-Graduate Courses in many subjects, more especially in view of the Ph.D. Degree now being instituted.

**Museums.**—Natural Philosophy, Fine Art, Geological, Natural History, Chemistry, Forestry, Agricultural Entomology, Anatomical, Physiology, *Materia Medica*, Forensic Medicine, Practice of Physic, Surgical, Obstetrical, and Music Museums.

**Libraries.**—The University Library. *Librarian*: F. C. Nicholson. Theological, Sellar and Goodhart (Classical), Philosophical, History, Physiology, Astronomy, Modern Languages, Natural Philosophy, Geology, Engineering, and Music Libraries.

No Institutions expressly affiliated, but the following contribute to the education of Students of Science:

Heriot-Watt College.  
Edinburgh and East of Scotland College of Agriculture.  
Dick Veterinary College.

**SCHOOL OF MEDICINE OF THE ROYAL COLLEGES, Edinburgh. (1505.)**

*Terms* : Two per year. *Students* : Winter Session (1918-19), 374.

**OFFICIAL.**

*Dean of the School.*—R. Cranston Low, M.B., F.R.C.P.

**LECTURERS.**

T. W. Drinkwater, <i>Chemistry</i> .	J. J. G. Brown, <i>Neurology and Clinical Medicine</i> .
H. Miller, <i>Zoology</i> .	H. Rainy, <i>Clinical Medicine</i> .
C. R. Whitaker, <i>Biology</i> .	C. Watson, " "
D. Turner, <i>Physics</i> .	E. Bramwell, " "
J. R. Whitaker, <i>Anatomy</i> .	N. T. Brewis, <i>Clinical Gynecology</i> .
A. Goodall, <i>Physiology</i> .	A. A. S. Skirving, <i>Surgery</i> .
J. Orr, <i>Materia Medica</i> .	J. Hodsdon, <i>Clinical Surgery</i> .
J. Miller, <i>Pathology and Bacteriology</i> .	D. Wallace, <i>Clinical Surgery</i> .
R. A. Fleming, <i>Medicine</i> .	A. Miles, <i>Clinical Surgery</i> .
Sir R. W. Philip, <i>Clinical Medicine</i> .	

LECTURERS—*Continued* :

J. W. Dowden, *Clinical Surgery*.  
 H. Wade, *Surgery*.  
 D. B. Hart, *Midwifery and Gynecology*.  
 W. G. A. Robertson, *Vaccination, Forensic Medicine, Medical Jurisprudence and Public Health*.  
 W. D. D. Small, *Vaccination*.

J. V. Paterson, *Diseases of the Eye*.  
 J. M. Farquharson, *Diseases of the Ear, Nose, and Throat*.  
 J. S. Fraser, *Diseases of the Ear, Nose, and Throat*.  
 A. D. Fordyce, *Diseases of Children*.  
 J. Guy, *Tuberculosis*.  
 Lt.-Col. J. Keay, *Mental Diseases*.

**Post-Graduate Courses.**—The School of Medicine of the Royal Colleges holds Post-Graduate Courses conjointly with the Edinburgh University.

AFFILIATED INSTITUTIONS.

Surgeons' Hall and New School of Medicine.

**ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH** (Incorporated by Royal Charter, 1681), Hall and Library, 9 Queen St., Edinburgh.

*President.*—Sir Robert Philip.  
*Vice-President.*—Dr. A. H. F. Barbour.  
*Secretary.*—Dr. J. S. Fowler.  
*Treasurer.*—Dr. Norman Walker.  
*Librarian.*—Dr. Berry Hart.  
*Sub-Librarian.*—T. H. Graham, O.B.E.  
*Clerk.*—A. Gray Muir, W.S.  
*Auditor.*—J. Wilson Brodie, C.A.  
*Representative in General Medical Council.*—Dr. W. Russell.

**RESEARCH LABORATORY**, 2, Forrest Road, Edinburgh.

*Curator.*—Dr. J. J. Graham-Brown.  
*Superintendent.*—Dr. J. Ritchie, Secandus.  
*Assistant Superintendent.*—Dr. J. P. McGowan.  
*Neurological Histologist.*—Dr. J. W. Dawson.

**HERIOT-WATT COLLEGE**, Chambers Street, Edinburgh. (1821.)

*Terms* : Day Classes, October to March, April to June.

Evening Classes, October to March.

*Students* : Day, 250; Evening, 3,000.

*Budget* :

Expenditure .. .. .	£19,776.
Income (including Government Grant) ..	£10,719.

OFFICIALS.

*Governors.*—The Governors of George Heriot's Trust.  
*Chairman.*—The Rt. Hon. The Lord Provost of Edinburgh.  
*Convener of Heriot-Watt College Committee.*—Bailie Barrie, J.P.  
*Principal.*—A. P. Laurie, M.A., D.Sc.  
*Clerk to the Governors.*—Peter Maenaughton, S.S.C.

No Degrees granted by College. Classes recognized by Universities of London and Edinburgh for degree of B.Sc. Diplomas are granted in Departments of Mechanical Engineering, Electrical Engineering, Applied Chemistry, and Mining Engineering.

PROFESSORS.

R. Stanfield, <i>Mechanical Engineering</i> .	A. A. Boon, <i>Applied Chemistry</i> .
F. G. Baily, <i>Electrical Engineering</i> .	H. Briggs, <i>Mining Engineering</i> .

2 Lecturers, Heads of Departments, and a large staff of Assistants.

**ROYAL (DICK) VETERINARY COLLEGE**, Edinburgh. (1823.)

*Terms* : Three per year.

*Principal.*—O. Charnock Bradley, M.D., D.Sc., M.R.C.V.S.  
*Secretary.*—F. P. Milligan.

**Degrees conferred.**—Students are eligible to take the Diploma of Membership of the Royal College of Veterinary Surgeons (M.R.C.V.S.) and the degree of B.Sc. in Veterinary Science of the University of Edinburgh.

# PROFESSORS.

O. C. Bradley, <i>Anatomy.</i>	D. C. Matheson, <i>Pathology.</i>
G. H. Gemmell, <i>Chemistry.</i>	R. G. Linton, <i>Hygiene and Dietetics.</i>
R. S. Macdougall, <i>Biology.</i>	W. M. Wilson, <i>Surgery.</i>
H. Dryerre, <i>Physiology.</i>	J. Russell Greig, <i>Medicine.</i>

2 Assistants and 1 House Surgeon.

**Post-Graduate Courses** in Pathology, Bacteriology, etc. Courses for Diploma in Veterinary State Medicine (D.V.S.M.).

# FREE CHURCH COLLEGE, The Mound, Edinburgh. (1843.)

*Session* : October to March.

*Principal*.—Rev. J. D. McCulloch, D.D.

*Clerk of Senatus*.—Rev. R. Moore.

Classes recognized by all the Scottish Universities as qualifying for admission to examination for B.D. degree.

# PROFESSORS.

Rev. W. M. Alexander, <i>Apologetics, Natural Science, Homiletics, Pastoral Theology, Missions.</i>	Rev. R. Moore, <i>Hebrew and Old Testament Exegesis.</i>
Rev. C. A. Bannatyne, <i>Church History and Church Principles.</i>	Rev. J. K. Cameron, <i>Systematic Theology.</i>
	Rev. J. R. MacKay, <i>New Testament Exegesis.</i>

1 Lecturer.

**Post-Graduate Courses.**—Divinity Course for candidates for the Ministry and for the B.D. degree in the Scottish Universities.

# Museums.—

Geological, Botanical and Zoological Museum, containing more than 4,000 specimens.

Biblical Museum, containing articles collected in Palestine and adjacent countries by the late Wm. Dickson.

**Library** of about 17,000 volumes. *Librarian* : Professor Alexander.

# NEW COLLEGE, Mound, Edinburgh. (1846.)

*Terms* : Three per year.

*Students* : Average, 80.

*Principal*.—Alex. Marvin, D.D.

**Degrees.**—B.A. and M.A., obtained at the University before entering New College; B.D. after concluding course.

# PROFESSORS.

Alex. Martin, <i>Apologetics.</i>	Hugh Watt, <i>Church History.</i>
H. R. Mackintosh, <i>Systematic Theology.</i>	Adam C. Welch, <i>Old Testament.</i>
H. A. A. Kennedy, <i>New Testament.</i>	J. Y. Simpson, <i>Natural Science.</i>

1 Lecturer, 1 Tutor.

**Post-Graduate Courses.**—Special Courses for Students from America and elsewhere for obtaining the Degree of Ph.D. at the University.

# Societies.—

Theological Society.

Missionary Society.

*Librarian* : J. Kennedy, D.D. *Assistant Librarian* : D. M. W. Laird, M.A.

# EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE

No particulars received.

ROYAL SOCIETY OF EDINBURGH, 22, George Street, Edinburgh. (1783.)

OFFICIALS.

*President.*—Prof. F. O. Bower, M.A., D.Sc., LL.D., F.R.S.

*General Secretary.*—Cargill G. Knott, D.Sc., LL.D.

*Secretaries to Ordinary Meetings.*—

Prof. E. T. Whittaker, Sc.D., F.R.S.

Prof. J. H. Ashworth, D.Sc., F.R.S.

*Treasurer.*—James Currie, M.A., LL.D.

*Curator of Library and Museum.*—A. Crichton Mitchell, D.Sc.

*Librarian and Assistant Secretary.*—G. A. Stewart.

*Assistant Librarian.*—Miss E. Harivel.

*Number of Ordinary Fellows:* Over 600.

*Honorary Fellows:* British, 20; Foreign, 36.

*Meetings.*—Statutory: Held on the fourth Monday of October. Ordinary: For reading and discussing communications and for general business, are held on the first and third Mondays of each month, from November to March, and from May to July, inclusive, with the exception that in January the meetings are held on the second and fourth Mondays.

**Publications.**—

Transactions.

Proceedings.

*Library.*—Contains 50,000 volumes, forming the most complete Scientific Reference Library in Scotland.

ROYAL BOTANIC GARDEN, Edinburgh. (1670.)

One of the three Gardens maintained by the State in the United Kingdom. It has an area of 57·6 acres. Open daily from 9 a.m. on week-days and from 11 a.m. on Sundays until sunset, free. The plant-houses are open from 1 p.m. until 5.30 p.m., or until sunset if this be earlier.

STAFF.

*Regius Keeper.*—Isaac Bayley Balfour, M.A., M.D., F.R.S.

*Assistant Keeper.*—William Wright Smith, M.A., F.L.S., F.R.S.E.

*Assistant in Herbarium.*—William Edgar Evans, B.Sc.

*Assistant in Laboratory.*—Matthew Young Orr.

*Assistant in Library.*—James Todd Johnstone, M.A., B.Sc.

*Assistant in Museum.*—Harry Frank Tagg, F.L.S.

*Assistant in Studio.*—Robert Moyes Adam.

*Head Gardener.*—Robert Lewis Harrow, F.R.H.S.

*Plant Propagator.*—Lawrence Baxter Stewart.

*Courses.*—In Horticulture, Forestry and allied Sciences for Gardeners and Foresters. The Laboratories are open to anyone desirous of undertaking Botanical Research. The Botanical Department of the University of Edinburgh carries out its work in the Lecture Rooms and Laboratories of the Garden.

GEOLOGICAL SURVEY OF SCOTLAND. See LONDON.

EDMONTON (Alberta).

UNIVERSITY OF ALBERTA, Edmonton, Alberta, Canada. (1908.)

*Terms,* one per year—October to May.

*Students,* 600.

*Budget,* current, \$339,493.

*Capital,* \$300,000.

OFFICIALS.

*Visitor.*—Hon. Robert George Brett, M.D., LL.D., Lieut.-Governor of Alberta.

*Chancellor.*—Hon. Chas. Allen Stuart, B.A., LL.B., LL.D.

*Vice-Chancellor.*—Hon. Nicholas Dubois Dominic Beek, LL.B.

*President.*—Henry Marshall Tory, M.A., D.Sc., LL.D., F.R.C.S.

*Chairman of Board of Governors.*—Hon. Horace Harvey, M.A., LL.B., LL.D., Chief Justice of Alberta.

*Secretary to the Board.*—Duncan S. Mackenzie.

*Dean of the Faculty of Arts and Sciences.*—Wm. Alex. Robb Kerr, M.A., Ph.D.

*Dean of the Faculty of Agriculture.*—Ernest A. Howes, B.S.A.

*Librarian.*—Frank G. Bowers.

*Registrar.*—Cecil Ethelbert Race, B.A., C.A., Secretary to the Senate.

**Degrees conferred.**—B.A., B.D., B.Sc. (Arts), B.Sc. (Pharmacy), B.S.A., LL.B.

The degree of LL.D. is conferred in recognition of distinction in literature or science, or for notable public service.

The B.D. degree is conferred upon completion by the student of the course offered by the affiliated theological colleges.

In the Faculty of Medicine three years of a five-year course are at present offered, students going to McGill and Toronto to complete their courses, entering without examination.

In Dentistry two years of a four-year course are now offered.

Graduate courses in the Faculty of Arts and Sciences are offered, leading to the degrees of M.A. and M.Sc.

## PROFESSORS.

### FACULTY OF ARTS.

#### Professors :

- W. A. R. Kerr, *Modern Languages.*
- W. H. Alexander, *Classics.*
- E. K. Broadus, *English Lang. and Lit.*
- J. M. McEachran, *Philosophy.*
- E. W. Sheldon, *Mathematics.*
- J. F. Coar, *German.*
- D. M. McGibbon, *Economics.*
- C. S. Burgess, *Architecture.*

#### Assistant Professors :

- G. Misener, *Latin.*
- R. K. Gordon, *English.*
- A. L. Burt, *History and Economics.*
- J. Adam, *Drawing and Descriptive*
- C. Carruthers, *Classics.* [Geometry.]
- P. A. W. Wallace, *English.*

### FACULTY OF SCIENCE.

#### Professors :

- A. L. F. Lehmann, *Chemistry.*
- F. J. Lewis, *Biology.*
- R. F. Boyle, *Physics.*

#### Assistant Professors :

- J. A. Allen, *Geology.*
- S. D. Killam, *Applied Mathematics.*
- C. A. Robb, *Mechanical Engineering.*
- I. F. Morrison, *Structural Engineering.*
- G. A. Borden (Miss), *Household Economics.*

### FACULTY OF MEDICINE.

#### Professors :

- D. G. Revell, *Anatomy.*
- A. Rankin, *Bacteriology.*
- H. H. Gaetz, *Pharmacy and Materia Medica.*

#### Assistant Professors :

- J. B. Collip, *Physiology and Biochemistry.*

### FACULTY OF AGRICULTURE.

#### Professors :

- E. A. Howes, *Agriculture.*
- A. A. Dowell, *Animal Husbandry.*
- G. H. Cutler, *Field Husbandry.*
- F. A. Wyatt, *Soils.*

**Post-Graduate Courses.**—Courses are offered in the Faculty of Arts and Sciences leading to the Degrees of M.A. and M.Sc. (Arts).

## AFFILIATED INSTITUTIONS.

- Alberta College (Methodist Theological), Edmonton.
- Robertson College (Presbyterian Theological), Edmonton.
- Western Canada College (Preparatory), Calgary.
- Mount Royal College (Preparatory), Calgary.
- The University School (Preparatory), Calgary.
- Westward Ho College (Preparatory), Edmonton.
- Llanarthney School for Girls (Preparatory), Edmonton.
- St. Aidan's Anglican College (Church of England Theological), Edmonton.

### ROBERTSON COLLEGE, Edmonton, Alberta. (1910.)

Affiliated to the University of Alberta.

Robertson (Presbyterian) and Alberta (Methodist) are two co-operating schools of Theology on the University Campus, both affiliated to the University of Alberta.

Robertson College, however, has the power, conferred by Charter of the Legislative Assembly of the Province, to confer the honorary degree of D.D. (Doctor of Divinity).

*Sessions :* One per year.

*Students (1919-20):* 20.



OFFICIAL.

*Principal*.—J. M. Millar, D.D.

5 Lecturers.

Degrees conferred.—B.D. by University of Alberta.

**Post-Graduate Courses.**—The B.D. Courses are given in Robertson College, and the degree is bestowed by the University.

**Library.**—Theological Library of 4,000 volumes. *Librarian* : H. G. Rice.

EDWARDES COLLEGE. *See* PESHAWAR.

ENGLEFIELD GREEN.

ROYAL HOLLOWAY COLLEGE, Englefield Green, Surrey. (1883.)

*Terms* : Three a year.

*Students* : 200.

OFFICIALS.

*Chairman of Governing Body*.—Sir Joseph Savory, Bart.

*Principal*.—Miss E. C. Higgins, B.A.

*Secretary*.—Miss W. R. Dolling.

PROFESSORS.

J. H. Sleeman, *Classics*.

M. E. S. Taylor (Miss), *Classics*.

S. L. Loney, *Mathematics*.

E. M. Rowell (Miss), *Mathematics*.

K. S. Block (Miss), *English*.

M. D. Honey (Miss), *French*.

W. E. Delp (Miss), *German*.

E. J. Carlyle, *History*.

M. J. Benson, *Botany*.

T. S. Moore, *Chemistry*.

F. Horton, *Physics*.

S. M. Barker (Miss), *Music*.

15 Lecturers.

**Library.**—Library of over 14,000 volumes. *Librarian* : Miss M. Hewlett.

**Post-Graduate Courses** for M.A., and M.Sc.

EUGENE (Oregon).

UNIVERSITY OF OREGON, Eugene, Oregon. (1792.)

*Terms* : Three a year and a summer term.

*Students* : 1,924.

*Budget* : \$390,960.17.

OFFICIALS.

*President*.—P. L. Campbell.

*Comptroller*.—L. H. Johnson.

*Registrar*.—C. E. Spencer.

*Librarian*.—M. H. Douglas.

*Dean of the College of Literature, Science, and the Arts*.—J. Straub, M.A., Lit.D.

*Dean of Graduate School*.—F. G. Young, B.A.

*Dean of Summer School*.—J. Schafer, Ph.D.

*Dean of School of Education*.—H. D. Sheldon, Ph.D.

*Dean of School of Medicine*.—K. A. J. Mackenzie, M.D.

*Dean of School of Commerce*.—D. W. Morton, M.A., C.P.A.

*Dean of School of Journalism*.—E. W. Allen, B.A.

*Dean of School of Architecture*.—E. F. Lawrence, M.S.

*Dean of School of Law*.—E. W. Hope, Ph.D.

*Dean of School of Music*.—J. J. Landsbury, Mus.Dr.

*Dean of Women*.—Miss E. F. Fox, B.A.

Degrees conferred.—B.A., B.Sc., LL.B., B.M., M.A., M.Sc., J.D., M.D., Ph.D.

## PROFESSORS.

LITERATURE, SCIENCE AND  
ARTS.

## Professors :

- J. C. Almaek, *Extension Division*.  
 J. D. Barnett, *Political Science*.  
 E. S. Bates, *Rhetoric and American Literature*.  
 J. F. Bovard, *Zoology*.  
 Capt. R. C. Baird, *Military Science and Tactics*.  
 W. P. Boynton, *Physics*.  
 J. Burgess (Miss), *Rhetoric*.  
 G. S. Monk, *Physics*.  
 H. A. Clark, *Latin*.  
 R. C. Clark, *History*.  
 T. Cloran, *Romance Languages*.  
 E. S. Conklin, *Psychology*.  
 M. L. Cummings (Miss), *Women's Gymnasium*.  
 P. C. Crockatt, *Economics*.  
 E. E. De Cou, *Mathematics*.  
 F. S. Dunn, *Latin Language and Literature*.  
 J. H. Gilbert, *Economics*.  
 H. C. Howe, *English Literature*.  
 J. J. Landsbury, *Music*.  
 E. F. Lawrence, *Architecture*.  
 E. H. McAlister, *Mechanics and Astronomy*.  
 W. E. Milne, *Mathematics*.  
 E. L. Packard, *Geology*.  
 M. H. Parsons (Mrs.), *Rhetoric*.  
 M. H. Perkins (Miss), "  
 R. W. Prescott, *Public Speaking*.  
 G. Rebec, *Philosophy*.  
 A. F. Reddie, *Public Speaking*.  
 E. C. Robbins, *Economics and Sociology*.  
 J. Schafer, *History*.  
 F. G. G. Schmidt, *German Language and Literature*.  
 A. H. Schroff, *Fine Arts*.  
 F. L. Shinn, *Chemistry*.  
 W. D. Smith, *Geology*.  
 O. F. Stafford, *Chemistry*.  
 J. Straub, *Greek Language and Literature*.  
 A. R. Sweetser, *Botany*.  
 W. F. G. Thacher, *Rhetoric*.  
 E. Thorstenberg, *Scandinavian Languages and Literatures*.  
 L. Tingle (Miss), *Household Arts*.  
 R. H. Wheeler, *Psychology*.  
 M. Watson (Miss), *English Literature*.  
 F. G. Young, *Economics and Sociology*.

## Assistant Professors :

- E. Waterman (Miss), *Physical Education*.  
 H. Rhodes (Miss), *Drawing*.  
 L. C. Roxenberg, *Drawing*.

## SCHOOL OF MEDICINE.

## Professors :

- W. F. Allen, *Anatomy*.  
 J. F. Bell, *Theory and Practice of Medicine*.  
 R. L. Benson, *Pathology*.  
 J. B. Bilderback, *Pediatrics*.  
 G. E. Burget, *Physiology*.  
 J. F. Dickson, *Ophthalmology*.  
 R. B. Dillihunt, *Anatomy*.  
 H. D. Haskins, *Biochemistry*.  
 S. E. Josephi, *Mental and Nervous Diseases*.  
 E. J. Labbe, *Obstetrics*.  
 A. E. Mackay, *Diseases of Genito-Urinary Organs*.  
 K. A. J. Mackensie, *Operative and Clinical Surgery*.  
 H. B. Myers, *Materia Medica, Pharmacology and Toxicology*.  
 R. Nunn, *Diseases of Eye, Nose, and Throat*.  
 H. J. Sears, *Bacteriology*.  
 E. F. Tucker, *Gynecology*.  
 G. F. Wilson, *Principles and Practice of Surgery*.  
 R. C. Yennet, *Clinical Medicine*.

## Associate Professors :

- J. C. Zan, *Clinical Surgery*.  
 F. R. Menne, *Pathology*.  
 W. House, *Mental and Nervous Diseases*.

## Assistant Professors :

- A. W. Baird, *Surgery*.  
 H. C. Bean, *Medicine*.  
 I. C. Brill, *Medicine*.  
 T. H. Coffen, *Clinical Medicine*.  
 H. W. Coffin, *Medicine*.  
 R. C. Coffey, "  
 J. E. Else, *Surgery*.  
 J. A. Gilbert, *Medicine*.  
 W. B. Holden, *Surgery*.  
 F. A. Kiehle, *Ophthalmology*. [ology.  
 J. C. E. King, *Dermatology and Syphil-*  
 W. S. Knox, *Clinical Medicine*.  
 G. A. Koehler, *Medicine*.  
 R. C. Matson, "  
 R. W. Matson, "  
 C. J. McCusker, *Obstetrics*.  
 C. E. Sears, *Medicine*.  
 L. Selling, *Clinical Medicine*.  
 C. S. White, *Hygiene and Sanitation*.  
 G. S. Whiteside, *Genito-Urinary Surgery*.  
 O. B. Wight, *Gynecology*.

## SCHOOL OF EDUCATION.

## Professors :

- B. W. De Busk, *Education*.  
 A. N. French, "  
 C. A. Gregory, "

**Professors—Continued :**

H. D. Sheldon, *Education*  
 F. L. Stetson     ,,  
 H. R. Douglas    ,,  
 G. M. Rusk       ,,  
 V. Morris         ,,

**SCHOOL OF LAW.**

**Professors :**

E. W. Hope, *Law*.  
 T. A. Larremore, *Law*.  
 S. B. Warner, *Law*.

**SCHOOL OF JOURNALISM.**

**Professors :**

E. W. Allen, *Journalism*.  
 G. S. Turnbull     ,,  
 C. V. Dymont       ,,

**SCHOOL OF COMMERCE.**

**Professor :**

D. W. Morton, *Commerce*. [tors.  
 40 Instructors and Assistant Instruc-

**SCHOOL OF MUSIC.**

**Professors :**

A. Lubken, *Singing*.

**Professors—Continued :**

L. Coon, *Organ*.  
 R. Underwood, *Stringed Instruments*.  
 A. L. Beck (Mrs.), *Public School Music*.  
 J. S. Thacher (Mrs.), *Pianoforte*.  
 F. V. Badolett, *Flute*.  
 R. Hickernell, *Wind Instruments*.

**Assistant Professors :**

M. Findahl (Miss), *Singing*.  
 3 Instructors.

**PORTLAND DIVISION.**

**Professors :**

F. S. Burke, *Pianoforte*.  
 A. Whiteside, *Pianoforte*.  
 J. C. Monteith, *Singing*.  
 P. M. Chapman (Miss), *Singing*.  
 F. Eichenlaub, *Violin*.  
 S. F. Pipes (Miss), *Violin*.  
 W. Boone, *Organ, Pianoforte, and Com-*  
*position*.  
 C. Denton, *Organ, Pianoforte, and*  
*Violin*.  
 W. H. Boyer, *Public School Music*.

**Post-Graduate Courses.—M.A., M.Sc.**

**Museums.—**

Condon Geological Museum, Johnson Hall.  
 Botanical Museum, Deady Hall.  
 Zoological Museum, Deady Hall.

**EWING CHRISTIAN COLLEGE. See ALLAHABAD.**

**EXETER.**

**ROYAL ALBERT MEMORIAL UNIVERSITY COLLEGE, Exeter. (1901.)**

*Terms :* Three a year.

*Students :* 103. Students in Elementary Training Department, School of Art,  
 University Tutorial Evening Classes, 500.

**Budget :**

Income: By Education Grant .. ..	£4,000
Exeter Council .. ..	4,220
Devon County .. ..	275
Fees .. ..	3,000
Sundries .. ..	300

**OFFICIALS.**

*Visitor*.—Alexander Hill, M.D.

*Principal*.—Arthur W. Clayden, M.A.

*Registrar*.—A. K. Woodbridge.

**Degrees.**—Students are prepared for the degrees of London University.

**PROFESSORS.**

A. W. Clayden, *Physics*.  
 W. H. Lewis, *Chemistry*.  
 A. E. Morgan, *English*.  
 W. J. Harte, *History*.

H. A. S. Wortley, *Lecturer in Educa-*  
*tion*.  
 Sir Israel Gollanez, *Honorary Leofric*  
*Lecturer in Old English*.

30 Lecturers.

**SCHOOL OF ART.**

*Visiting Directors.*—Alfred Drury, R.A.; H. Granville Fell.

*Head Master.*—W. Burman Morrall.

7 Assistants.

The **Exeter Public Library** and the **Museum** are both under the same Governing Body as the College. There is a separate Reference Department in the Library for College Students. *Librarian:* H. T. Soper. *Curator:* F. R. Rowley. *Assistant Curator:* Miss E. Aviolet.

**FORMAN CHRISTIAN COLLEGE.**    *See LAHORE.*

**FOURAH BAY (Sierra Leone).**

**FOURAH BAY COLLEGE,** Freetown, Sierra Leone. (1827.)

The College is affiliated to the University of Durham in Arts and Theology. The C.M.S. College, Oyo, Southern Nigeria, is also affiliated to Durham in Theology only, and there is an arrangement by which we and they reciprocate in examining for Matriculation.

*Terms:* Four a year.

*Students:* 26.

**OFFICIALS.**

*Visitor.*—Right Rev. John Walmsley, D.D.

*Principal.*—J. Denton, M.A., L.Th.

*Vice-Principal.*—Rev. W. T. Balmer, M.A., B.D.

3 Tutors, 2 Lecturers.

**Post-Graduate Courses.**—As at Durham.

Many Graduates go to England for Law and Medicine. Some read for B.C.L., B.D. and M.A. locally. Many get the M.A. and B.C.L. One has got the B.D. Several have received Honorary Degrees from Durham—Hon. D.D., Hon. M.A., etc.

**Library.**—College Library.

**FRANKLIN INSTITUTE.**    *See PHILADELPHIA.*

**FREDERICTON (Canada).**

**UNIVERSITY OF NEW BRUNSWICK,** Fredericton, New Brunswick, Canada. (1800.)

*Terms:* Two per year.

*Students:* 160.

*Budget:* \$40,000.

**OFFICIALS.**

*Visitor.*—His Honor the Hon. William Pugsley, K.C., M.A., D.C.L., LL.D., P.C., Lieutenant-Governor of the Province of New Brunswick.

*Chancellor.*—Cecil C. Jones, M.A., Ph.D., LL.D.

*President of the Senate.*—W. S. Carter, M.A., LL.D., D.C.L.

*Registrar.*—Havelock Coy, M.A.

**Degrees conferred :**

<i>Degrees.</i>	<i>Hoods.</i>
B.A. -	- Black stuff bordered with white fur.
B.Se. -	- (Arts) Black stuff lined with scarlet silk, bordered with white fur.
B.Sc. -	- (Applied Science) Black stuff with green silk, bordered with white fur.
B.C.L. -	- Pale blue silk, bordered with white fur.
M.A. -	- Black silk lined with crimson silk.
M.Sc. -	- (Arts) Black silk lined with white silk, bordered with scarlet.
M.Se. -	- (Applied Science) Black silk lined with white silk, bordered with green.
Ph.D. -	- Scarlet cloth with dark blue silk lining.
LL.D. -	- Scarlet cloth with pale pink silk lining.
D.Sc. -	- Scarlet cloth with white corded silk lining.
D.C.L. -	- Scarlet cloth with pale blue silk lining.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- W. T. Raymond, *Classics and Ancient History*.  
 W. C. Kierstead, *Philosophy and Economics*.  
 E. L. Harvey, *English and Modern History*.  
 J. A. Spaulding, *French and German*.

FACULTY OF PURE AND APPLIED SCIENCE.

Professors :

- C. C. Jones, *Mathematics*.

**Post-Graduate Courses.**—M.A. Courses given when equipment of Department and time-table of instructors permit.

**Museum.**—Natural History Museum, which includes Boardman Bird Collection.  
*Curator* : P. Cox, B.A. B.Sc.

*Librarian* : W. C. Kierstead, M.A.

Professors—Continued :

- L. W. Bailey, *Natural History and Geology*.  
 P. Cox, *Natural History and Geology*.  
 J. Stephens, *Mechanical Engineering and Drawing*.  
 A. V. S. Pulling, *Forestry*.  
 E. O. Turner, *Civil Engineering*.  
 C. S. McGinnis, *Physics and Electrical Engineering*.  
 A. Cameron, *Chemistry*.  
 3 Lecturers.

GAINSVILLE (Florida).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—P. H. Rolfs.

GALESBURG (Illinois).

KNOX COLLEGE, Galesburg, Illinois. (1837.)

*Terms* : Two semesters.

*Students* : College, 503; Conservatory, 273.

*Budget* : \$30,000.00.

OFFICIALS.

*President.*—James L. McConaughy.

*Dean.*—William E. Simonds.

*Registrar.*—Herbert E. Griffith.

**Degrees conferred.**—B.A., B.Sc., Mus.B.

PROFESSORS.

Professors :

- J. L. McConaughy, *Education*.  
 W. E. Simonds, *English*.  
 H. E. Griffith, *Chemistry*.  
 G. T. Sellew, *Mathematics*.  
 A. C. Longden, *Physics*.  
 W. L. Raub, *Philosophy*.  
 W. P. Drew, *Latin*.  
 J. L. Conger, *History*.  
 B. H. Grave, *Biology*. [*Literature*.]  
 J. Sterenberg, *Greek and Biblical*

Professors—Continued :

- J. N. Campbell, *Romance Languages*.  
 F. A. Middlebush, *History and Government*.  
 R. E. Curtis, *Economics and Sociology*.  
 J. A. Campbell, *German*.

Assistant Professors :

- J. R. Holmes (Miss), *History*.  
 R. C. Whitford, *English*.  
 M. L. Sawyer (Miss), *Biology*.

9 Instructors, 1 Assistant, 1 Director of Athletics, 1 Director of Physical Instruction for Women, 1 Professor of Military Science and Tactics.

AFFILIATED INSTITUTIONS.

Knox Conservatory of Music.

There are, in addition, 7 Professors and 4 Instructors in the Conservatory.



## GALWAY.

**UNIVERSITY COLLEGE, Galway. (1845.)**

*Terms* : Three per year.

*Students* : 175.

*Budget* :

Annual Grant from Government .. ..	£14,000
Annual Grant from Connaught County Councils .. ..	1,500

### OFFICIALS.

*President*.—Alexander Anderson, M.A., D.Sc., LL.D.

*Registrar*.—Rev. J. Hynes, B.D.

### \* PROFESSORS.

#### FACULTY OF ARTS.

##### Professors :

- R. K. McElderry, *Ancient Classics*.
- W. A. Byrne, *English Language and Literature*.
- W. O'Brien, *Romance Languages*.
- E. Anderson (Miss), *German*.
- M. J. D. O'Sullivan (Mrs.), *History*.
- J. Howley, *Philosophy*.
- Rev. T. O'Kelly, *Education*.
- B. F. Shields, *Economics*.
- 2 Assistants.

#### FACULTY OF SCIENCE.

##### Professors :

- M. Power, *Mathematics*.
- A. Anderson, *Physics*.
- T. Dillon, *Chemistry*.
- J. Mangan, *Natural History*.
- H. B. Cronshaw, *Geology and Mineralogy*.
- 6 Assistants.

#### FACULTY OF MEDICINE.

##### Professors :

- J. P. Pye, *Anatomy and Physiology*.
- R. B. Mahon, *Medicine*.
- W. W. Brereton, *Surgery*. [rics.
- R. J. Kinead, *Gynecology and Obstet-*
- N. W. Colohan, *Materia Medica and*
- Pharmacy*.
- T. Walsh, *Pathology*. [Otology.
- S. P. MacEnri, *Ophthalmology and*

**Post-Graduate Courses** are given in all the foregoing Faculties.

**Museums** of Natural History, Geology, Pathology, Materia Medica, and Gynecology.

**Library**.—40,000 volumes. *Librarian* : Prof. J. Howley, M.A.

**GENERAL THEOLOGICAL SEMINARY. See NEW YORK.**

## GENEVA (New York).

**NEW YORK AGRICULTURAL EXPERIMENT STATION, Geneva, New York.**  
(1880.)

### OFFICIALS.

*President*.—C. S. Wilson.

*Director*.—Whitman H. Jordan.

*Secretary and Treasurer*.—W. O'Hanlon.

*Librarian*.—F. H. Hall, B.S.

##### Lecturers :

- T. Walsh, *Medical Jurisprudence and Hygiene*.
- R. J. Kinead, *Medical Jurisprudence and Hygiene*.
- N. W. Colohan, *Fever Cases*.
- A. English (Miss), *Mental Cases*.
- 7 Assistants.

#### FACULTY OF ENGINEERING.

##### Professors :

- F. S. Rishworth, *Civil Engineering*.
- W. G. Griffith, *Electrical Engineering*.
- 3 Assistants.

#### FACULTY OF LAW.

- R. J. Sheehy, *Law and Jurisprudence*.

#### FACULTY OF COMMERCE.

- T. McBryan, *Economics, Commerce, and Accountancy*.
- H. B. Cronshaw, *Geography*.

#### CELTIC SCHOOL.

##### Professor :

- T. O'Maille, *Irish Language, Philology, and Literature*.

##### Lecturers :

- S. P. MacEnri, *Modern Irish*.
- Rev. J. Hynes, *Celtic Archeology*.

STAFF.

*Agriculturist*.—G. W. Churchill.  
*Agronomist*.—R. C. Collison.  
*Assistant Chemist (Agronomy)*.—J. E. Mensching.  
 3 Assistant Agronomists.  
*Bacteriologist*.—R. S. Breed.  
*Assistant Bacteriologists*.—H. J. Conn.  
 3 Assistant Bacteriologists.  
*Botanist*.—F. C. Stewart.  
*Associate Botanist*.—W. O. Gloyer.  
 1 Assistant Botanist.  
*Chemist*.—L. L. Van Slyke.  
*Associate Chemists*.—  
     R. J. Anderson.  
     A. W. Clark.  
     J. C. Baker.  
 6 Assistant Chemists.

*Dairy Expert*.—G. A. Smith.  
*Entomologist*.—J. P. Parrott.  
*Associate Entomologists*.—  
     H. Glasgow.  
     F. Z. Hartzell.  
 2 Assistant Entomologists.  
*Horticulturist*.—U. P. Hedrick.  
*Associate Horticulturists*.—  
     R. D. Anthony.  
     F. E. Gladwin.  
     O. M. Taylor.  
 4 Assistant Horticulturists.  
*Special Agent*.—F. Atwood Sirrine.  
 7 Clerks and Stenographers.

GEOLOGICAL SURVEY OF GREAT BRITAIN. See LONDON.

GEOLOGICAL SURVEY OF INDIA. See CALCUTTA.

GEORGETOWN UNIVERSITY. See WASHINGTON.

GEORGE WASHINGTON UNIVERSITY. See WASHINGTON.

GEORGIA UNIVERSITY. See ATHENS.

GLASGOW.

UNIVERSITY OF GLASGOW, Glasgow. (1450.)

*Terms*: Three per year.

*Students* (1918-19): 3,047.

*Budget* (1917-19):

Income: Fees .. ..	£34,850
Endowments .. ..	20,116
Treasury Grants .. ..	33,380
Miscellaneous .. ..	3,700
Expenditure .. ..	91,283

OFFICIALS.

*Chancellor*.—The Earl of Rosebery and Midlothian, K.G., K.T.

*Principal and Vice-Chancellor*.—Sir Donald MacAlister, K.C.B., M.A., D.C.L., LL.D., D.Sc., Ph.D.

*Rector*.—The Right Hon. A. Bonar Law.

*Dean of Faculties*.—Emeritus Prof. Stewart, D.D., LL.D.

*Secretary of University Court*.—Alan E. Clapperton, LL.D.

*Assistant Secretary of University Court*.—Robert Brough.

*Clerk of Senate*.—Rev. Prof. Milligan, D.D., D.C.L.

*Registrar of University*.—Albert Morrison.

Degrees conferred:

*Degrees.*

*Hoods.*

B.A. -	-	Black silk, bordered inside with red purple silk (colour of bell heather— <i>Erica cinerea</i> ).
M.A. -	-	Black silk, lined with red purple silk.
D.Phil. -	-	Scarlet cloth, lined with reddish purple silk.
D.Litt. -	-	Scarlet cloth, lined with bluish purple silk.
B.Sc. -	-	Black silk, bordered with scarlet cloth and lined with gold coloured silk (colour of whin blossom— <i>Ulex Europæa</i> ).
D.Sc. -	-	Scarlet cloth, lined with gold-coloured silk.
B.L. -	-	Black silk, with an inside border of venetian red silk (colour of clove carnations).

## Degrees conferred—Continued.

Degrees.	Hoods.
LL.B. -	- Black silk, bordered with scarlet cloth, and lined with venetian red silk.
LL.D. (Hon.)	Scarlet cloth, lined with venetian red silk.
M.B. and C.M.	Black silk, bordered with scarlet cloth and lined with scarlet silk.
M.D. -	- Scarlet cloth, lined with scarlet silk.
B.D. -	- Black silk, bordered with scarlet cloth, and lined with a light cherry silk.
D.D. (Hon.) -	Scarlet cloth, lined with white silk.

## PROFESSORS.

## FACULTY OF ARTS.

## Professors:

- R. Latta, *Logic and Rhetoric*.  
 A. Gray, *Natural Philosophy*.  
 Sir H. Jones, *Moral Philosophy*.  
 G. A. Davies, *Greek*.  
 J. S. Phillimore, *Humanity*.  
 W. M. Dixon, *English Language and Literature*.  
 D. J. Medley, *History*.  
 W. R. Scott, *Political Economy*.  
 R. S. Rait, *Scottish History and Literature*.  
 C. A. Martin, *French Language and Literature*.  
 H. Smith, *German Language and Literature*.

## Lecturers:

- C. A. Martin, *French Language and Literature*.  
 H. Smith, *German Language and Literature*. [ture.  
 E. Grillo, *Italian Language and Literature*.  
 H. Brennan, *Russian Language and Literature*. [ture.  
 G. Calder, *Celtic Language and Literature*.  
 R. Girvan, *English Language*.  
 J. S. Smart, *English*.  
 R. A. Duff, *Political Philosophy*.  
 J. H. Jones, *Social Economics*.  
 T. Keith (Miss), *Economic History*.  
 A. Browning, *History*.  
 W. Boyd, *Education*.  
 T. H. Weir, *Arabic*.  
 J. D. Falconer, *Geography*.  
 H. J. Watt, *Psychology*.  
 L. J. Russell, *Logic*.  
 W. Anderson, "  
 J. W. Scott, *Moral Philosophy*.  
 R. G. Nisbet, *Latin*.  
 W. Rennie, *Greek*. [Archeology.  
 J. B. Hutton, *Greek History and Antiquities*.  
 S. N. Miller, *Roman History and Antiquities*.  
 J. W. Pirie, *Comparative Philology*.

## FACULTY OF SCIENCE.

## Professors:

- G. A. Gibson, *Mathematics*.  
 J. G. Kerr, *Zoology*.  
 G. G. Henderson, *Chemistry*.

## Professors—Continued:

- T. S. Patterson, *Organic Chemistry*.  
 F. O. Bower, *Botany*.  
 J. D. Cormack, *Civil Engineering*.  
 Sir J. H. Biles, *Naval Architecture and Marine Engineering*.  
 J. W. Gregory, *Geology*.  
 (Vacant), *Mining*.

## Lecturers:

- R. J. T. Bell, *Mathematics*.  
 J. M. F. Drummond, *Botany*.  
 J. G. Gray, *Physics*.  
 R. A. Houston, *Physical Optics*.  
 G. E. Allan, *Electricity, Pure and Applied*.  
 G. Green, *Natural Philosophy*.  
 J. Connell, *Astronomy*.  
 W. E. Agar, *Zoology and Protozoology*.  
 R. Wright, *Physical Chemistry*.  
 H. W. Bolam, *Chemistry*.  
 J. S. Nicholson, *Electrical Engineering*.  
 W. G. Goudie, *Engineering*.  
 R. M. Brown, "  
 G. W. Tyrrell, *Geology*.

## FACULTY OF MEDICINE.

## Professors:

- T. K. Monro, *Practice of Medicine*.  
 T. H. Bryce, *Anatomy*.  
 Sir W. Macewen, *Surgery*.  
 M. Cameron, *Midwifery*.  
 R. Stockman, *Materia Medica*.  
 D. N. Paton, *Physiology*.  
 J. Glaister, *Forensic Medicine*.  
 R. Muir, *Pathology*.  
 J. M. M. Kerr, *Obstetrics and Gynecology*.  
 R. Kennedy, *Surgery*. [cology.  
 J. H. Teacher, *Pathology*.  
 W. K. Hunter, *Medicine*.

## Lecturers:

- A. A. Gray, *Diseases of the Ear*.  
 J. Adam, *Diseases of the Ear*.  
 J. W. Downie, *Diseases of the Throat and Nose*.  
 J. Harper, *Diseases of the Throat and Nose*.  
 A. M. Ramsay, *Eye*.  
 L. R. Oswald, *Insanity*.  
 D. Burns, *Physiology*.  
 A. McL. Watson, *Physiology*.

**Lecturers—Continued :**

G. H. Wilson, *Bacteriology*.  
 J. Wyllie Nicol, *Dermatology*.  
 G. MacIntyre, *Dermatology*.  
 J. W. McNee, *Pathological Histology*.  
 W. J. Dilling, *Materia Medica*.  
 W. K. Hutton, *Anatomy*.  
 J. M. Cowan, *Clinical Medicine*.  
 J. B. M. Anderson, *Clinical Medicine*.  
 W. R. Jack                   "       "  
 J. Henderson               "       "  
 A. N. MacGregor, *Clinical Surgery*.  
 T. Kay                       "       "  
 G. H. Edington           "       "  
 D. Watson, *Veneral Diseases*.  
 J. H. Macdonald, *Psychological Medicine*.  
 J. R. Riddell, *Electrical Diagnosis and Therapeutics*.  
 A. Allison, *Public Health*.  
 J. Crockett, *Clinical Tuberculosis*.  
 A. S. M. Macgregor, *Clinical Tuberculosis*.

**FACULTY OF THEOLOGY.**

**Professors :**

H. M. B. Reid, *Divinity*.  
 W. B. Stevenson, *Hebrew and Semitic Languages*.  
 J. Cooper, *Church History*.  
 G. Milligan, *Biblical Criticism*.

**FACULTY OF LAW.**

**Professors :**

W. M. Gloag, *Law*.  
 W. S. McKechnie, *Conveyancing*.

**Lecturers :**

A. A. Mitchell, *General and Comparative Jurisprudence*.  
 D. B. Mungo, *Constitutional Law and History*.  
 H. R. Buchanan, *Civil Law*.  
 T. G. Wright, *Mercantile Law*.  
 R. Lamond, *Evidence and Procedure*.  
 45 Assistants to Professors, 7 Assistants to Lecturers.

**Post-Graduation Courses** in the Faculty of Medicine are held at the Royal, Western, and Victoria Infirmaries and also in the several Hospitals for special branches of Medicine. Honours and other advanced courses are provided at the University. The medical and scientific laboratories are open to research workers. In regard to the Faculties generally it may be stated that graduates are permitted to attend any of the University classes for purposes of higher study. They may also engage in specific researches. The new degree of Doctor of Philosophy (Ph.D.) has been instituted for advanced students admitted to courses of research.

**Museums, Learned Societies.—**

**Hunterian Museum.**—This Museum was founded by the eminent William Hunter, M.D., who bequeathed to the University his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens and archeological relics, and also a building for their reception and preservation.

With Dr. Hunter's collections there are incorporated the University collection of Roman inscriptions from the Antonine Vallum, and many important donations which have, from time to time, been received from friends of the University, as well as valuable additions purchased by the University.

There are a great many learned societies connected with the University, including: The Medico-Chirurgical Society; The Dialectic Society; The Engineering Society; The Physical Society; The Geological Society, etc.

**The University Library** was founded in the fifteenth century. The collection of books numbers over 200,000. *Librarian* : Vacant. *Sub-Librarian* : Mungo Ferguson, M.A.

**AFFILIATED INSTITUTIONS.**

Royal Technical College, Glasgow.

**THE ROYAL TECHNICAL COLLEGE, Glasgow. (1796.)**

*Terms* : Two per year—September to April, and April to July.  
*Students* : 981 day students, and 2,178 evening students.  
*Budget* : Normal Income and Expenditure about £37,000.

**OFFICIALS.**

*Chairman of the Governors.*—Sir George Beilby, LL.D., D.Sc., F.R.S.  
*Director.*—H. Fitton Stockdale, LL.D., F.R.S.E.

**Degrees.**—Undergraduates are presented for degrees in Applied Science of the University of Glasgow.

## PROFESSORS.

## Professors :

- J. Miller, *Mathematics*.  
 J. Muir, *Natural Philosophy*.  
 T. Gray, *Technical Chemistry*.  
 F. J. Wilson, *Inorganic and Analytical Chemistry*.  
 J. M. Heilbron, *Organic Chemistry*.  
 C. H. Desch, *Metallurgy*.  
 J. G. Longbottom, *Mechanics*.  
 G. Moncur, *Civil Engineering*.  
 A. L. Mellanby, *Mechanical Engineering*.  
 M. Maclean, *Electrical Engineering*.  
 D. Burns, *Mining Engineering*.  
 C. Gourlay, *Architecture and Building*.

## Lecturers :

- J. Paul, *Mathematics*.  
 S. J. Murray, "  
 J. Hunter, "  
 D. Miller, "  
 W. G. Burrell, "  
 D. McPhie, "  
 J. S. Rankin, *Natural Philosophy*.  
 T. B. Duncan, *Natural Philosophy*.  
 J. G. Cameron (Miss), "  
 G. E. Allan, "  
 D. B. McQuistan, "  
 M. M. J. Sutherland (Miss), *Chemistry*.  
 J. A. Cranston, *Chemistry*.  
 J. E. Hopper, "  
 P. Gordon, "  
 J. Leslie, "  
 J. M. Cooper, "  
 G. S. Cruikshanks, *Technical Chemistry*.  
 A. B. Steven, *Bleaching, Dyeing, Calico printing and finishing*.  
 T. H. P. Heriot, *Sugar Manufacture*.  
 D. Houston, *Tanning*.  
 J. McLeod, *Gas Manufacture*.  
 J. McGhee, *Gas Distribution*.

## Lecturers—Continued :

- W. C. Gray, *Metallurgy*.  
 J. W. Donaldson, *Metallurgy*.  
 W. Blackadder, *Mechanics*.  
 J. Ramsay, "  
 A. I. Nicholson, "  
 D. Clark, *Civil Engineering*.  
 G. Thomson, *Sanitary Engineering*.  
 W. A. Macartney, *Municipal Engineering and Town Planning*.  
 L. P. Lewis, *Railway Signalling*.  
 A. M. Persom, *Mechanical Engineering*.  
 W. R. Chisholm, *Drawing*.  
 A. E. McEaw, *Motor Car Engineering*.  
 D. J. Mackellar, *Electrical Engineering*.  
 O. M. Salzmann, "  
 J. Murray, "  
 J. Luke, *Wireless Telegraphy*.  
 W. B. Hird, *Dynamo Design*.  
 R. B. Mitchell, *Wiring and Fitting*.  
 J. Sim, *Mining Engineering*.  
 E. J. Edwards, *Economic Geology*.  
 W. M. Gray, *Naval Architecture*.  
 J. Houston, *Architecture and Building*.  
 T. Brown, "  
 J. L. Mackinnon, *Builders' Quantities*.  
 D. Ellis, *Botany and Bacteriology*.  
 W. Zamorska (Miss), *Botany and Bacteriology*.  
 W. Watson, *Textile Manufacture*.  
 W. H. Cairns, "  
 (Vacant), *Hosiery Manufacture*.  
 C. H. Brown, *Navigation*.  
 A. Mc'Donald, "  
 W. Hamilton, "  
 W. M. Gray, "  
 (Vacant), *Baking*.  
 A. Macdonald, *Naval Signalling*.  
 H. C. Miller, *History and Theory of Music*.

**Post-Graduate Courses** are offered in all the principal Departments.

The **Library** contains about 20,000 volumes, devoted almost entirely to works on Science and Technology. *Librarian* : P. Bennett.

## ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW. (1599.)

## OFFICIALS.

*President*.—Dr. A. Freeland Fergus.

*Visitor*.—Dr. W. G. Dun.

*Treasurer*.—Dr. George McIntyre.

*Hon. Librarian*.—Dr. E. H. L. Oliphant.

The Royal Faculty grants a Licence for Dental Surgery, and in co-operation with the Royal Colleges of Physicians of Edinburgh and the Royal College of Surgeons of Edinburgh grants a Licence to practice in Medicine and Surgery, and also a Diploma in Public Health. The Royal Faculty also grants a Fellowship.

The **Library** contains about 100,000 volumes, chiefly Medical, with a fair proportion of local books. *Librarian* : Walter Hurst, F.L.A.



**THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, Glasgow. (1899.)**

*Terms* : Winter Session in Glasgow.  
 Summer Session in Kilmarnock.  
*Students* : 285.

**OFFICIALS.**

*Principal*.—W. G. R. Paterson, B.Sc., N.D.A.  
*Secretary*.—W. Cuthbertson, M.B.E., F.R.S.E., F.E.I.S.  
**Diplomas conferred**.—C.D.A., C.D.D., C.D.F. No Hoods.

**PROFESSORS.**

W. G. R. Paterson, <i>Agriculture</i> .	R. H. Leitch, <i>Dairying</i> .
A. N. McAlpine, <i>Botany</i> .	R. J. Drummond, <i>Practical Dairy</i>
R. A. Berry, <i>Chemistry</i> .	<i>Work</i> .

20 Lecturers.

*Extension Staff* : 12 Lecturers; 11 Instructresses.

**GOLDEN (Colorado).**

**COLORADO SCHOOL OF MINES, Golden, Colorado. (1874.)**

The Colorado School of Mines is a high-grade technical school that gives only one course: Mining Engineering, in four groups—Metal Mining, Coal Mining, Metallurgy, and Mining Geology—all leading to the degree of Engineer of Mines. The Course is four years in length.

*Terms* : Two semesters. *Students* : 279 in 1918-19.  
*Budget* : \$120,000.00 annually.  
*President*.—Victor C. Alderson, Sc.D.

**PROFESSORS.**

**Professors :**

I. A. Palmer, *Metallurgy*.  
 L. S. Grant, *Mining*.  
 J. C. Roberts, *Coal Mining*.  
 J. L. Morse, *Mechanical Engineering*.  
 A. E. Bellis, *Physics*.  
 A. P. Little, *Electrical Engineering*.  
 F. M. Van Tuyl, *Geology and Mineral-ogy*.  
 T. O. Walton, *Mathematics*.  
 J. S. Jaffa, *Mining Law*.  
 Major G. C. Dobson, *Military Science and Tactics*.

**Associate Professors :**

J. Underhill, *Mining*.  
 C. W. Botkin, *Chemistry*.  
 J. F. O'Byrne, *Descriptive Geometry and Modine Design*.

**Assistant Professors :**

W. J. Robinson, *Geology and Mineral-ogy*.  
 J. F. Seiler, *Civil Engineering*.  
 L. D. Roberts, *Chemistry*.  
 S. Z. Krumm, *Mining and Metallurgy*.  
 1 Instructor.

**Post-Graduate** work is offered.

**Institutes and Societies.**—

The American Institute of Mining and Metallurgical Engineers.  
 The United States Bureau of Mines.

**Library** of 15,000 volumes.

**GORDON COLLEGE.** *See* RAWALPINDI.

**GORDON MEMORIAL COLLEGE.** *See* KHARTOUM.

**GOUCHER COLLEGE.** *See* BALTIMORE.

**GRAHAMSTOWN (S. Africa).****RHODES UNIVERSITY COLLEGE**, Grahamstown, Union of South Africa. (1904.)

A college of the Federal "University of South Africa."

*Terms* : Four per year.*Students* : 161.**OFFICIALS.***Chairman*.—The Right Rev. The Bishop of Grahamstown.*Vice-Chairman*.—H. Fitchat, J.P.*Registrar*.—Lt.-Col. H. Greener, D.S.O.**Degrees conferred.—**

- (1) *In the Faculty of Arts*: B.A., M.A., D.Litt., Ph.D., B.D., D.D., Mus.Bac., Mus.M., Mus.Doe.
- (2) *In the Faculty of Science*: B.Sc., M.Sc., D.Sc., M.B., B.S., M.S., M.D.
- (3) *In the Faculty of Law*: LL.B., LL.M., LL.D.

**PROFESSORS.**

W. M. Smail, *Latin*.  
 C. W. Bowles, *Greek*.  
 A. S. Kidd, *English*.  
 G. F. Dingemans, *Dutch*.  
 H. S. Bodmer, *French*.  
 A. R. Lord, *Philosophy*.

D. Williams, *Pure Mathematics*.  
 R. W. Varder, *Physics*.  
 G. E. Cory, *Chemistry*.  
 E. H. S. Schwarz, *Geology*.  
 E. Schorland, *Botany*.  
 J. E. Duerden, *Zoology*.

12 Lecturers.

**Libraries**.—Rhodes College Library. *Hon. Librarian* : H. S. Bodmer.**GRAND FORKS (N. Dakota).****THE UNIVERSITY OF NORTH DAKOTA**, Grand Forks, N. Dakota. (1883.)

The control of the University is vested in a State Board of Regents, five in number, appointed by the Governor of the State.

It has an endowment from land of \$1,721,262, while its campus, buildings, and equipment are valued at \$904,997, and its income for the biennium 1919-20 amounts to \$545,699.

The administrative and instructional staff number 146, representing in their preparation 46 different colleges and universities.

It has 1,500 alumni.

In the classified list of universities and colleges in America published by the U.S. Bureau of Education (1913) the University of North Dakota is placed in the first class.

Its graduates are received with full credit at all the larger American Universities, and it is included in the list of the Association of American Universities of those institutions whose degrees are recognized by the European Universities.

The business administration of the University is thoroughly organized along modern lines, with a budget system in full operation and skilfully handled.

The educational administration maintains sound ideals of scholarship and service. The faculty represents careful selection for teaching ability as well as scholarship.

*Terms* : Two semesters of 18 weeks each, and Summer Session of 6 weeks.*Students* : 1,290.*Budget* (1919-20):

Annual Income, exclusive of University Commons and Trust									
Funds	..	..	..	..	..	..	..	..	\$337,430
Annual Expenditures:									
Salaries	..	..	..	..	..	..	..	..	\$237,525
Equipment	..	..	..	..	..	..	..	..	9,675
General Expenses	..	..	..	..	..	..	..	..	84,910
Total	..	..	..	..	..	..	..	..	\$332,110

# OFFICIALS.

*President.*—Thomas F. Kane, Ph.D., LL.D.

*Dean of College of Lib. Arts.*—Vernon P. Squires, M.A., Litt.D.

*Dean of School of Education.*—Joseph Kennedy, M.A., LL.D.

*Dean of School of Medicine.*—Harley E. French, M.S., M.D.

*Dean of School of Law.*—G. Fitch Wells, LL.B., LL.D.

*Dean of College of Engineering and School of Mines.*—Earle J. Babcock, B.S., Sc.D.

*Registrar and Secretary of Faculty.*—H. N. Tuttle.

*Business Manager.*—J. Wallace Wilkerson.

**Degrees conferred.**—B.A., B.S., LL.B., B.S. in C.E., B.S. in E.M., B.S. in M.E. or E.E., B.S. in E.

*Higher Degrees.*—The degree of M.A. or M.S. is conferred upon those who hold the degree of B.A. or B.S., and who have completed in addition a year of graduate work.

A Student who has received the degree of B.S. in one of the Engineering courses may receive the degree of C.E., M.E., E.E., or E.M. on the completion of an additional year of study in the respective fields.

# PROFESSORS.

## COLLEGE OF LIBERAL ARTS.

### Professors :

G. A. Abbott, *Chemistry.*

W. G. Bek, *German.*

H. R. Brush, *Romance Languages.*

G. R. Davies, *History and Sociology.*

J. M. Gillette, *Sociology.*

R. R. Hitchcock, *Mathematics.*

H. E. Haxo, *Spanish.*

G. E. Hult, *Classical Languages.*

O. G. Libby, *History.*

B. J. Spence, *Physics.*

V. P. Squires, *English Language and Literature.*

J. Tingelstad, *Scandinavian Languages and Literature.*

E. T. Towne, *Economics and Political Science.*

R. T. Young, *Zoology.*

### Assistant Professors :

E. X. Anderson, *Chemistry.*

H. Doak, *English.*

E. L. Fulton (Miss), *English.*

H. E. Haxo, *Romance Languages.*

A. D. Keator, *Library Science.*

N. E. Pfeiffer (Miss), *Botany.*

J. A. Taylor, *English.*

H. C. Trimble, *Chemistry.*

P. J. Davis, *Physical Education for Men.*

H. F. Jones, *English.*

W. E. Sayre, *Manual Acts.*

J. W. Taylor, *History.*

## SCHOOL OF MEDICINE.

### Professors :

A. D. Bush, *Physiology.*

H. E. French, *Anatomy.*

B. J. Clawson, *Pathology.*

### Assistant Professor :

A. G. Long, *Pathology.*

## COLLEGE OF ENGINEERING.

### Professors :

E. J. Babcock, *Mining.*

A. J. Becker, *Applied Mathematics.*

E. F. Chandler, *Civil Engineering.*

D. R. Jenkins, *Electrical Engineering.*

A. G. Leonard, *Geology.*

R. L. Rhodes, *Mechanical Engineering.*

H. E. Simpson, *Physiographic Geology.*

### Assistant Professors :

L. C. Harrington, *Mining.*

F. W. Bentley, *Mechanical Drawing and Descriptive Geometry.*

## LAW SCHOOL.

### Professors :

R. W. Cooley, *Law.*

G. F. Wells, „

H. E. Willis, „

### Assistant Professor :

L. Vold, *Law.*

## SCHOOL OF EDUCATION.

### Professors :

J. Kennedy, *Education.*

A. J. Ladd, „

C. C. Schmidt, *Educational Methods.*

J. W. Todd, *Psychology.*

### Assistant Professors :

M. Van Hoesen (Miss), *Home Economics.*

O. E. Christensen, *Art and Design.*

N. Martindale (Miss), *Physical Education for Women.*

34 Instructors and Assistants and 8 Lecturers.

**Post-Graduate Courses.**—The Graduate Department includes in a single organization the advanced work of all the colleges and schools of the University which offer courses leading to higher degrees. Its purpose is to stimulate original research and high scholarship beyond the scope of the ordinary undergraduate courses. The administration of the department is entrusted to a committee on graduate work.

Several fellowships and scholarships are available for graduate study.

**Institutes, Museums, Learned Societies.**—

The University Museum, containing botanical, zoological, and geological collections.

The University has under its direction:

The North Dakota State Geological Survey.

A Special Meteorological Station of the U.S. Weather Bureau.

The Mining Experiment Station.

The North Dakota Biological Station.

The North Dakota Public Health Laboratory, with three branch laboratories.

Chapter of Phi Beta Kappa (National Scholastic Honor Society).

Branch of Association of Collegiate Alumnae.

**Libraries.**—

General University Library, 53,000 volumes.

Law Library, 9,500 volumes. *Librarian*: A. D. Keator, B.S., B.L.S. *Reference Librarian*: Miss J. M. Budge, B.A.

**AFFILIATED INSTITUTION.**

North Dakota Wesley College (formerly the Red River Valley University).

**GREENWICH OBSERVATORY. See LONDON.**

**GUAM ISLAND.**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director*.—C. W. Edwards.

**GUELPH (Ontario).**

**ONTARIO AGRICULTURAL COLLEGE, Guelph, Ontario, Canada.**

Affiliated with the University of Toronto.

*Terms*: Two per year.

*Students*: 1,000 average.

**OFFICIALS.**

*President*.—G. C. Creelman, B.S.A., LL.D.

*Bursar*.—S. Springer.

*Secretary*.—S. H. Gandier, B.S.A.

**Degrees conferred.**—B.S.A., B.Sc. (Agr.).

**PROFESSORS.**

**Professors:**

H. H. Dean, *Dairy Husbandry*.

C. A. Zavitz, *Field Husbandry*.

J. H. Reed, *Veterinary Science*.

R. Harcourt, *Chemistry*.

M. U. Watson (Miss), *Home Economics*.

J. Evans, *Manual Training*.

C. J. S. Bethune, *Entomology and Zoology*.

W. R. Graham, *Poultry Husbandry*.

J. W. Crow, *Horticulture*.

J. E. Howitt, *Botany*.

**Professors—Continued:**

D. H. Jones, *Bacteriology*.

O. J. Stevenson, *English*.

W. Toole, *Animal Husbandry*.

W. C. Blackwood, *Physics*.

F. E. Millen, *Apiculture*.

**Associate Professors:**

L. Caesar, *Entomology*.

W. J. Squirrel, *Field Husbandry*.

J. P. Sackville, *Animal Husbandry*.

21 Lecturers, 11 Demonstrators, 5 Instructors.

**Library.**—The Massey Library, 28,000 volumes. *Librarian*: Miss J. Gardiner.

**ENTOMOLOGICAL SOCIETY OF ONTARIO**, Guelph, Ontario, Canada.

*President.*—Arthur Gibson.

*Secretary-Treasurer.*—A. W. Baker.

The Entomological Society of Ontario was founded in 1863, at Toronto, by William Saunders (subsequently Director of the Experimental Farms of the Dominion of Canada,) and the Rev. C. J. S. Bethune (afterwards Head Master of Trinity College School, Port Hope, and Professor of Entomology in the Ontario Agricultural College, Guelph). There were 25 original members. Prof. H. H. Croft, of the Toronto University, was the first President, and W. Saunders, Secretary-Treasurer. In 1868 the Society began the publication of the *Canadian Entomologist*, a monthly magazine of systematic and popular Entomology, which was edited by Messrs. Bethune and Saunders in turn for over forty years, and is now in its fifty-first volume, edited by Prof. E. M. Walker of Toronto.

In 1870 the Society issued its first Annual Report on Economic Entomology, and has continued the publication ever since. In 1871 the Society was incorporated by the Legislature of Ontario and voted an annual grant, amounting of late years to \$1,000. Branches have been formed in Montreal, Toronto, British Columbia, and Nova Scotia, and the membership covers all the Provinces of the Dominion from the Atlantic to the Pacific. Its headquarters (for many years in London, Ontario) are now at the Guelph Agricultural College.

**GUILDFORD.**

**SURREY ARCHAEOLOGICAL SOCIETY**, Castle Arch, Guildford.

**OFFICIALS.**

*President.*—The Right Hon. Lord Ashcombe, Lord-Lieutenant of Surrey.

*Hon. Secretary.*—H. E. Malden, M.A.

**Publications.**—Annual volumes of Collections. Occasional volumes extra.  
**Museum and Library** at Guildford.

**GUJRANWALA (Punjab).**

**GURU NANAK KHALSA COLLEGE**, Gujranwala, Punjab.

Affiliated to the University of the Punjab, Lahore.

**OFFICIALS.**

*President.*—S. Gopal Singh, Reis.

*Principal.*—P. B. Kewalramani.

*Secretary.*—S. Narain Singh, B.A.

**PROFESSORS.**

**Professors :**

P. B. Kewalramani, *Philosophy and History.*

S. T. Singh, *Theology and English.*

S. S. Singh, *Sanskrit.*

**Library.**—The College Library. *Librarian :* S. P. Singh.

**Professors—Continued :**

M. A. Jabbar, *Arabic and Persian.*

L. A. Dass, *Mathematics and English.*

**Assistant Professor :**

S. R. Singh, *English and Divinity.*

**HALIFAX (Nova Scotia).**

**DALHOUSIE UNIVERSITY**, Halifax, Nova Scotia. (1918.)

*Sessions :* One of about thirty-two weeks' duration.

*Students (1919-20) :* 611.

*Budget (1918-19) :* \$75,000.00.

**OFFICIALS.**

*President.*—A. Stanley Mackenzie, Ph.D., D.C.L., F.R.S.C.

*Dean of the College.*—Howard Murray, B.A., LL.D.

*Dean of the Faculty of Law.*—Donald A. MacRae, Ph.D.

*Secretary of the Faculty of Medicine.*—D. Fraser Harris, M.D., D.Sc., F.R.S.S.E., and C.

*Dean of the Faculty of Dentistry.*—Frank Woodbury, D.D.S.

*Registrar of the Faculty of Arts and Science.*—Murray Macneill, M.A.

*Adviser to Women Students of the University.*—Eliza Ritchie, B.L., Ph.D.

*Librarian of the University Library.*—A. MacMechan, Ph.D.



## Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Black hood, lined with white silk, bordered with white fur.
M.A. - -	Black hood, lined with crimson silk.
B.Sc. - -	Black hood, lined with white silk, bordered with scarlet silk.
M.Sc. - -	Black hood, lined with scarlet silk.
B.Mus. - -	Black hood, lined with white silk, bordered with lavender silk.
Phm.B. - -	Black hood, lined with white silk, bordered with dark blue silk.
LL.B. - -	Black hood, lined with white silk, bordered with gold-coloured silk.
M.D., C.M.	Black hood, lined with scarlet silk, bordered with white silk.
D.D.S. - -	Black hood, lined with scarlet silk, bordered with gold-coloured silk.
LL.D. - -	Black hood, lined purple silk.

## PROFESSORS.

## Professors :

- A. MacMeehan, *English Language and Literature.*  
 H. Murray, *Classics.*  
 E. Mackay, *Chemistry.*  
 H. P. Jones, *Modern Languages.*  
 M. Macneill, *Mathematics.*  
 H. L. Bronson, *Physics.*  
 D. F. Harris, *Physiology.*  
 J. E. Todd, *History and Political Economy.*  
 J. N. Finlayson, *Civil Engineering.*  
 H. L. Stewart, *Philosophy.*  
 D. A. MacRae, *Constitutional and International Law.*  
 Hon. B. Russell, *Contracts, Lecturer on Sales and Equity Jurisprudence.*  
 M. A. Curry, *Obstetrics and Diseases of Women and Children.*  
 M. Chisholm, *Clinical Surgery.*  
 G. M. Campbell, *Clinical Medicine.*  
 W. H. Hattie, *Mental Diseases.*  
 L. M. Silver, *Medicine and Clinical Medicine.*  
 M. A. B. Smith, *Clinical Medicine.*  
 J. Stewart, *Surgery.*

## Professors—Continued :

- A. F. Buckley, *Materia Medica.*  
 E. V. Hogan, *Surgery and Clinical Surgery.*  
 H. K. McDonald, *Clinical Surgery*  
 A. G. Nicholls, *Pathology and Bacteriology.*  
 J. Cameron, *Anatomy.*  
 F. Woodbury, *Prosthetic Dentistry and History, Ethics and Jurisprudence.*  
 A. W. Cogswell, *Dental Pathology and Therapeutics.*  
 F. W. Ryan, *Operative Dentistry.*  
 G. K. Thomson, *Crown and Bridge Work, Ceramics and Hygiene.*  
 S. G. Ritchie, *Dental Anatomy and Comparative Dental Anatomy.*  
 W. W. Woodbury, *Orthodontia.*  
 A. F. Buckley, *Materia Medica.*

## Associate Professor :

- W. Bruce Almon, *Obstetrics.*

## Assistant Professors :

- D. S. McIntosh, *Geology.*

- C. Moore, *Biology.*

- 39 Lecturers, 3 Instructors, 5 Demonstrators, 2 Examiners.

**Post-Graduate Courses.**—Leading to M.A., and M.Sc.

**Museums.**—Museum of Natural History, Geology, and Indian Antiquities contains valuable collections.

**Libraries.**—

University Library contains 20,000 volumes and 5,000 pamphlets.

Law Library contains 8,000 volumes.

## AFFILIATED INSTITUTIONS.

Presbyterian College, Halifax.

Prince of Wales College at Charlottetown, P.E.I.

Halifax Conservatory of Music.

The Maritime College of Pharmacy, Halifax.

Halifax Ladies' College.

Convent of the Sacred Heart, Halifax.

Mount St. Vincent Academy, Halifax.

## HAMILTON (New York).

COLGATE UNIVERSITY, Hamilton, New York. (1819.)

Terms : Two semesters.

Students : 550.

### OFFICIALS.

President.—Elmer B. Bryan, LL.D., L.H.D.

Vice-President.—Melbourne S. Read, Ph.D.

Dean of the College.—William H. Crawshaw, Litt.D., LL.D.

Dean of the Theological Seminary.—John F. Vichert, D.D.

Degrees conferred.—A.B., B.S., Th.B., A.M., M.S., B.D.

### PROFESSORS.

#### FACULTY OF THE COLLEGE.

##### Professors :

M. S. Read, *Psychology and Education*.

J. M. Taylor, *Mathematics*.

J. F. McGregory, *Chemistry*.

W. H. Crawshaw, *General Literature*.

J. Greene, *Latin*.

R. W. Moore, *German Language and Literature*.

A. P. Brigham, *Geology*.

W. M. Chester, *Biology*.

C. D. Child, *Physics*.

F. C. Ewart, *Romance Languages*.

E. C. Huntington, *Physiology and Hygiene*.

E. W. Goodhue, *Economics and Socio-*

F. H. Allen, *History and Politics*.

E. W. Smith, *English Literature and Public Speaking*.

A. E. Alton, *Biblical Literature*.

F. C. French, *Philosophy*.

W. H. Hoerrner, *Music*.

##### Associate Professors :

F. L. Shepardson, *Greek*.

A. W. Smith, *Mathematics*.

R. B. Smith, *Chemistry*.

A. B. Stewart, *Mathematics (Engineering)*.

H. O. Whitnall, *Mineralogy and Economic Geology*.

##### Associate Professors—Continued :

R. W. Foley, *Economics and Sociology*.

W. G. Spence, *Latin*.

H. G. Good, *Psychology and Education*.

W. F. Langworthy, *Biology*.

F. Mason Jones, *Romantic Languages*.

R. G. Ingraham, *Rhetoric*.

##### Assistant Professors :

E. P. Sisson, *Mathematics*.

J. A. Lahey, *Chemistry*.

F. A. MacIntyre, *History*.

Lt.-Col. J. Ballantine, *Director of Military Instruction*.

#### FACULTY OF THE THEOLOGICAL SEMINARY.

##### Professors :

W. H. Maynard, *Ecclesiastical History*.

D. F. Estes, *New Testament Interpretation*.

G. R. Berry, *Old Testament Interpretation*.

J. B. Anderson, *Ecclesiology and the English Bible*.

W. H. Allison, *Ecclesiastical History*.

J. F. Vichert, *Christian Theology*.

##### Professorial Lecturer :

W. M. Lawrence, *Christian Ethics*.

University Library, 85,000 bound volumes.

HAMILTON COLLEGE. See CLINTON.

## HANOVER (New Hampshire).

DARTMOUTH COLLEGE, Hanover, New Hampshire, U.S.A. (1769.)

Semesters : Two a year.

Students : 1,738.

### OFFICIALS.

President.—E. M. Hopkins, Litt.D., LL.D.

Dean.—Craven Laycock, A.M.

Registrar.—Howard Murray Tibbetts, A.M.

Degrees conferred.—A.B., B.S., A.M., M.S., C.E., M.C.S.

## PROFESSORS.

**THE ACADEMIC FACULTY.****Professors :**

- E. J. Bartlett, *Chemistry*.  
 L. B. Richardson, *Chemistry*.  
 G. D. Lord, *Classical Archeology*.  
 C. D. Adams, *Greek Language and Literature*.  
 C. A. Proctor, *Physics*.  
 C. R. Lingley, *History*.  
 E. F. Clark, *German*.  
 W. Patten, *Zoology*.  
 H. D. Foster, *History*.  
 F. P. Emery, *English*.  
 J. H. Gerould, *Zoology*.  
 R. H. Jordan, *Education*.  
 W. A. Robinson, *Political Science*.  
 H. D. Dozier, *Economics*.  
 M. Keir, *Economics*.  
 L. H. Dow, *French Language and Literature*.  
 H. E. Burton, *Latin Language and Literature*.  
 A. K. Hardy, *German*.  
 J. M. Poor, *Astronomy*.  
 W. A. Adams, *German*.  
 G. F. Hull, *Physics*.  
 W. K. Stewart, *Comparative Literature*.  
 P. O. Skinner, *Romance Languages*.  
 C. E. Bolser, *Organic Chemistry*.  
 J. W. Bowler, *Hygiene and Physical Education*.  
 N. E. Gilbert, *Physics*.  
 C. C. Stewart, *Physiology*.  
 J. W. Goldthwait, *Geology*.  
 W. H. Sheldon, *Intellectual and Moral Philosophy*.  
 C. N. Haskins, *Mathematics*.  
 C. H. Page, *English*.  
 J. W. Young, *Mathematics*.  
 C. A. Phillips, *Economics*.  
 F. M. Anderson, *History*.  
 H. T. Moore, *Psychology*. [Science.  
 J. P. Richardson, *Law and Political*  
 W. H. Wood, *Biblical History and Literature*.  
 L. B. McWhood, *Music*.  
 A. H. Washburn, *International Law*.  
 E. B. Woods, *Sociology*.

**Assistant Professors :**

- L. S. Hastings, *Rhetoric and Oratory*.  
 A. H. Chivers, *Botany*.  
 L. Griggs, *Zoology*.  
 A. H. Basye, *History*.  
 F. J. Neef, *German*.  
 R. D. Beetle, *Mathematics*.  
 E. R. Greene, *Romance Languages*.  
 F. L. Childs, *English*.  
 R. W. Jones, *German*.  
 H. L. Hillman, *Physical Education*.  
 K. A. Robinson, *English*.  
 L. D. White, *Political Science*.  
 W. S. Messer, *Latin*.

**Assistant Professors—Continued :**

- W. Shumway, *Biology*.  
 R. C. Nemial, *Latin*.  
 A. B. Meservey, *Physics*.  
 W. C. Shaw, *Public Speaking*.  
 P. S. Dow, *Graphics and Engineering*.  
 E. G. Bill, *Mathematics*.  
 F. E. Guyer, *French*.  
 F. M. Morgan, *Mathematics*.  
 G. B. Zug, *Modern Art*.  
 D. Lambuth, *English*.  
 L. C. Mathewson, *Mathematics*.  
 S. G. Patterson, *Romance Languages*.  
 A. J. Scarlett, *Chemistry*.  
 W. K. Wright, *Philosophy*.  
 C. H. Forsyth, *Mathematics*.  
 L. L. Silverman ,,

**THE MEDICAL FACULTY.****Professors :**

- G. D. Frost, *Clinical Medicine*.  
 J. M. Gile, *Physical Diagnosis and Clinical Surgery*.  
 P. Bartlett, *Surgery*.  
 H. N. Kingsford, *Pathology and Bacteriology*.  
 F. P. Lord, *Anatomy*.

**Assistant Professors :**

- K. N. Atkins, *Bacteriology*.  
 O. B. Gilbert, *Pharmacology*.  
 1 Instructor.

**THE THAYER SCHOOL FACULTY.****Professors :**

- C. A. Holden, *Civil Engineering*.  
 F. E. Austin, *Electrical Engineering*.  
 R. R. Marsden, *Civil Engineering*.  
 1 Instructor.

**Assistant Professor :**

- A. P. Richmond, *Civil Engineering*.

**THE TUCK SCHOOL FACULTY.****President :**

- E. M. Hopkins, Litt.D., LL.D.

**Dean :**

- W. R. Gray.

**Secretary :**

- G. H. Tapley, M.C.S.

**Professors :**

- H. S. Person, *Business Organization and Management*.  
 W. R. Gray, *Accounting*.  
 W. H. Murray, *Modern Languages*.  
 C. A. Phillips, *Banking*.  
 H. R. Wellman, *Marketing*. [tion.  
 N. G. Burleigh, *Business Organization*.

**Assistant Professor :**

- R. Brackett, *Commercial Law*.

**Lecturer and Supervisor :**

- J. P. Taylor, *Field Work, Commercial Executive Practice*.

**Post-Graduate Courses.**—For the degrees of A.M. and M.S.

**Museum.**—Butterfield Museum, containing Biological, Ethnological, and Geological Collections. *Curator* : J. W. Goldthwait.

**Libraries.**—

College Library of 150,000 volumes.

Reference Library of 10,000 volumes.

12 Departmental Libraries.

*Librarian* : N. L. Goodrich, A.M., B.L.S.

**HARPER ADAMS, AGRICULTURAL COLLEGE.** See NEWPORT.

## HARTFORD (Connecticut).

**TRINITY COLLEGE,** Hartford, Conn. (1823.)

The College was founded by Episcopalians largely as a protest against what, at the time, was regarded as the narrow sectarianism of Yale College, and in the charter was included a clause guaranteeing for ever the non-sectarian character of the institution. The College has always lived up to this section of its charter.

This is now past history, and acrimonious sectarian discussions and animadversions are out of date. The two colleges work together in harmony to further the cause of education.

*Terms* : From September to June. Recess of two weeks at Christmas, and one of ten days at Easter.

*Students* : Normally about 250.

*Budget* : \$120,000,000.

### OFFICIALS.

*President.*—Henry A. Perkins, M.A., E.E.

*Acting Secretary of the Faculty.*—F. Cole Babbitt, Ph.D.

*Registrar.*—Arthur Adams, Ph.D.

### Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. -	- Black stuff, edged with palatinate purple silk.
B.Sc. -	- Black stuff, edged with light blue silk.
Litt. B. -	- Black stuff, edged with russet brown silk.
B.D. -	- Black silk, edged with scarlet silk.
L.L.B. -	- Black silk, edged with dark blue silk.
Mus.Bac. -	- Black silk, edged with pink silk.
M.A. -	- Black silk, lined with palatinate purple silk.
D.D. -	- Scarlet cloth, lined with black silk.
Litt.D. -	- Scarlet silk, lined with russet brown silk.
L.L.D. -	- Scarlet silk, lined with dark blue silk.
C.L.D. -	- Crimson silk, lined with black silk.
Mus.D. -	- White silk, lined with pink silk.
Ph.D. -	- Black silk, lined with purple silk.
M.D. -	- Scarlet silk, lined with maroon silk.

### PROFESSORS.

#### Professors:

Rev. J. J. McCook, *Modern Languages*.  
 R. B. Riggs, *Chemistry*.  
 F. C. Babbitt, *Greek Language and Literature*.  
 W. M. Urban, *Philosophy*.  
 H. A. Perkins, *Physics*.  
 G. A. Kleene, *Economics*.  
 C. A. Fischer, *Mathematics and Astronomy*.  
 C. E. Rogers, *Civil Engineering*.  
 H. C. Swan, *Physiology and Physical Training*.  
 Adams, *English*.

#### Professors—Continued :

Ler. C. Barret, *Latin Language and Literature*.  
 F. W. Carpenter, *Biology*.  
 S. L. Galpin, *Romance Languages*.  
 E. R. Humphrey, *History and Political Science*.  
 O. Shepard, *English Literature*.

#### Assistant Professors :

H. M. Dadouisan, *Physics*.  
 E. C. Stone, *Chemistry*.  
 2 Instructors.

**Post-Graduate Courses.**—Almost every year a few special courses are arranged for resident students, but no instruction for graduate students is regularly offered.

**Museums of Biology, Geology, and Mineralogy.**

**Library.**—Over 85,000 volumes and 45,000 pamphlets. *Librarian:* Arthur Adams, Ph.D.

### HARTFORD SEMINARY FOUNDATION, Hartford, Conn.

Founded as Hartford Theological Seminary in 1834.

Reorganized as Hartford Seminary Foundation, 1913.

*Terms:* Two semesters.

*Students:* 120.

#### OFFICIALS.

*President of the Foundation.*—W. Douglas Mackenzie, D.D., LL.D.

*Dean of the Theological Seminary.*—M. W. Jacobus, D.D.

*Dean of the School of Pedagogy.*—E. H. Knight, D.D.

*Dean of the School of Missions.*—E. W. Capen, Ph.D.

*Secretary of the Foundation.*—C. S. Lane, D.D.

**Degrees conferred.**—S.T.B., Pd.B., S.T.M., Pd.M., S.T.D., Ph.D.

Hoods are lined with the colours of the Foundation, old gold; the colours of the borders are in accord with the system of American Universities for higher degrees.

#### PROFESSORS.

##### Professors:

W. S. Pratt, *Liturgics.*

M. W. Jacobus, *New Testament Exegesis.*

E. K. Mitchell, *Early Church History.*  
(Vacant), *Practical Theology.*

A. L. Gillett, *Apologetics.*

L. B. Paton, *Old Testament Exegesis.*

D. B. Macdonald, *Semitic Languages and Muhammadanism.*

E. H. Knight, *New Testament Language and Literature.*

(Vacant), *Psychology.*

W. D. Mackenzie, *Christian Theology.*

E. E. Nourse, *New Testament Theology.*

C. M. Geer, *Medieval and Modern Church History.*

O. M. Baxter (Miss), *Home Economics.*

##### Professors—Continued:

C. S. Lane, *Church History.*

J. D. Adam, *Practical Theology.*

W. H. Worrell, *Phonetics.*

E. W. Capen, *Sociology.*

A. J. W. Myers, *Pedagogy.*

L. Hodous, *Missions in China.*

W. C. Willoughby, *Missions in Africa.*

##### Associate Professors:

C. S. Thayer, *Bibliology.*

M. H. Ananikain, *History and Languages of Turkey.*

M. S. Platt (Mrs.), *Missionary Practice.*

K. L. Hill (Miss), *Missionary Practice.*

1 Extension Lecturer, 9 Instructors,  
20 Lecturers and 2 Tutors.

**Post-Graduate Courses.**—The seminary desires in every way to encourage the extension of theological study to four years and to provide for those who wish to specialize in any Department. Graduates of this or other seminaries have the privileges of tuition, rooms, scholarships, etc., enjoyed by undergraduates.

**Classification of Courses.**—Graduate Courses are of two kinds, Major Courses and Minor Courses. Major Courses are reckoned as equivalent to 90 hours of instruction; Minor Courses as equivalent to 30 hours. In addition to courses specifically offered to graduates, certain undergraduate courses may also be taken during the graduate year.

Courses are grouped in five departments, namely: Old Testament, New Testament, History, Systematics, Practics. This grouping may not under all circumstances be rigidly adhered to. For example, certain courses that are grouped under Systematics might be reckoned to History, etc.

**Museum.**—The main portion of the Museum comprises the collection of missionary curiosities, for many years on exhibition in the rooms of the American Board of Commissioners for Foreign Missions at Boston, which has now been deposited with the Seminary. It includes a great variety of objects illustrating the customs and worship of races among which missions have been established. This collection has been arranged geographically, and forms a Missionary Museum of unusual attractiveness.



**Library.**—The Case Memorial Library is equalled by few, if any, theological libraries of this country. It has secured the important published collections of Greek Papyri and Inscriptions and the allied treatises and periodicals, which furnish abundant material for the study of Hellenistic Greek. Adequate provision has also been made for work in the Christian Oriental languages: Syriac, Ethiopic, and Coptic.

**AFFILIATED INSTITUTIONS.**

Hartford Theological Seminary.  
Hartford School of Religious Pedagogy.  
Kennedy School of Missions.

**HARVARD UNIVERSITY.** *See* CAMBRIDGE (Mass.).

**HELWAN OBSERVATORY.** *See* CAIRO.

**HINDU COLLEGE.** *See* DELHI.

**HOBART (Tasmania).**

**THE UNIVERSITY OF TASMANIA,** Hobart, Tasmania. (1890.)

*Terms:* Four per year.

**OFFICIALS.**

*Chancellor.*—The Hon. Tetley Grant, C.M.G., M.A.  
*Vice-Chancellor.*—William Joshua Tilley Stops, LL.B.  
*Warden of Senate.*—George Wilson Waterhouse, B.A.  
*Vice-Warden of Senate.*—The Very Rev. Robert Snowden Hay, B.A.  
*Registrar.*—Montague M. Ansell, B.A.

**Degrees conferred:**

*Degrees.*

- |       |   |   |   |
|-------|---|---|---|
| B.A.  | - | - | Black silk hood, with a two-inch lining of dark blue silk.                          |
| M.A.  | - | - | Black silk hood, lined entirely with dark blue silk.                                |
| B.Sc. | - | - | Black silk hood, with a two-inch lining of white silk.                              |
| M.Sc. | - | - | Black silk hood, lined entirely with white silk.                                    |
| D.Sc. | - | - | Black silk hood (as Doctor in Oxford University), lined entirely with white silk.   |
| LL.B. | - | - | Black silk hood, with a two-inch lining of crimson silk.                            |
| LL.M. | - | - | Black silk hood, lined entirely with crimson silk.                                  |
| LL.D. | - | - | Black silk hood (as Doctor in Oxford University), lined entirely with crimson silk. |

*Hoods.*

**PROFESSORS.**

W. H. Williams, <i>Classics and English Literature.</i>	T. T. Flynn, <i>Biology.</i>
A. McAulay, <i>Mathematics.</i>	J. H. Mackay, <i>Engineering.</i>
D. G. McDougall, <i>Law.</i>	R. L. Dunbabin, <i>Classics.</i>
	9 Lecturers, 4 Student Assistants.

**ROYAL SOCIETY OF TASMANIA,** Hobart. (1843.)

The Royal Society of Tasmania is the oldest Scientific Society in Australasia.

*Patron.*—His Majesty the King.

*President.*—The Governor of Tasmania.

*Secretary and Librarian.*—Clive E. Lord.

**Publication.**—Papers and Proceedings.

**THE TASMANIAN MUSEUM AND ART GALLERY, AND BOTANICAL GARDENS**  
Hobart. (1844.)

*Curator.*—Clive E. Lord.

*Superintendent of Gardens.*—John Wardman.

**THE TASMANIAN FIELD NATURALISTS' CLUB,** Hobart. (1904.)

*Secretary.*—Clive E. Lord.

**HONG KONG (China).****HONG KONG UNIVERSITY.** No particulars received.**ROYAL OBSERVATORY,** Hong Kong, China. (1883.)**British Colonial Observatory,** 1883.

Meteorological, Magnetical, and Time Observations.

Daily Weather Forecasts and Storm Warnings.

**OFFICIALS.***Director.*—T. F. Claxton, F.R.A.S.*Chief Assistant.*—C. W. Jeffries.*First Assistant.*—B. D. Evans.

7 Local Assistants and Telegraphists.

**Publications.**—

Daily Weather Map of the Far East for 6 a.m. (120th meridian time.)

Daily Weather Report.

Monthly Meteorological Bulletin.

Annual Report of the Director.

**HONOLULU (Hawaii).****FEDERAL EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Agronomist.*—J. M. Westgate.**BERNICE PAUAI BISHOP MUSEUM OF POLYNESIAN ETHNOLOGY AND  
NATURAL HISTORY.****OFFICIALS.***Acting Director.*—Dr. Herbert E. Gregory.*Director Emeritus and Curator of Anthropology.*—Dr. Wm. T. Brigham.*Honorary Curator of Mollusca.*—Dr. Wm. H. Dall.*Curator of Polynesian Ethnology.*—J. F. G. Stokes.*Curator of Pulmonata.*—Dr. C. M. Cooke.*Honorary Curator of Entomology.*—Otto H. Swezey.*Curator of Botany.*—C. N. Forbes.*Acting Librarian.*—Miss C. G. Dickerman.**Library.**—About 9,000 volumes. *Librarian:* Miss E. B. Higgins.**Publications.**—Occasional Papers, I.-VI. 1898; Memoirs, I.-VII., 1899; Miscellaneous, Nos. 1-5, 1892.**SUGAR PLANTERS' EXPERIMENT STATION, U.S. DEPARTMENT OF  
AGRICULTURE.***Director.*—H. P. Agee.**ILLINOIS UNIVERSITY.** See URBANA.**INDIANA UNIVERSITY.** See BLOOMINGTON.**INDORE (Central India).****INDORE CHRISTIAN COLLEGE,** Indore, Central India. (1884.)

Affiliated to the University of Allahabad.

*Terms:* Two a year.*Students:* 175.**OFFICIALS.***Principal.*—R. A. King, M.A., B.D., D.D.*Librarian.*—D. Ananten.**PROFESSORS.**A. A. Scott, *Metaphysics.*

|

H. W. Lyons, *Economics.*

6 Other Professors.

**Museum of Economics.**

## IOWA CITY (Iowa).

THE STATE UNIVERSITY OF IOWA, Iowa City, Iowa. (1847.)

Terms : Three, and a Summer Session.

Students : 3,707.

## OFFICIALS.

*President.*—Walter A. Jessup, Ph.D.*Secretary.*—William H. Bates.*Secretary University Senate.*—Elmer A. Wilcox, B.A.*University Examiner and Registrar.*—Herbert C. Dorcas, M.A.

Degrees conferred.—B.A., B.S., LL.B., M.D., D.D.S., Ph.G., Ph.C., B.S. in Ph., B.E., B.S. in H.E., B.S. in Com., B.Mus., M.A., M.S., Ph.D., C.E., E.E., M.E.

## PROFESSORS.

## COLLEGE OF LIBERAL ARTS.

## Professors :

- G. T. W. Patrick, *Philosophy*.  
 C. B. Wilson, *German*.  
 C. C. Nutting, *Zoology*.  
 E. W. Rockwood, *Chemistry*.  
 G. L. Houser, *Animal Biology*.  
 B. F. Shambaugh, *Political Science*.  
 B. Shimek, *Botany*.  
 F. H. Potter, *Latin*.  
 C. E. Seashore, *Psychology*.  
 H. G. Plum, *History*.  
 H. F. Wickham, *Entomology*.  
 E. D. Starbuck, *Philosophy*.  
 C. H. Weller, *Greek, History of Art*.  
 S. H. Bush, *Romance Languages*.  
 G. F. Kay, *Geology*.  
 R. B. Wylie, *Morphological Botany*.  
 M. C. Mumma, *Military Science and Tactics*.  
 G. W. Stewart, *Physics*.  
 C. A. Cumming, *Graphic and Plastic Arts*.  
 P. S. Peirce, *Economics*.  
 A. C. Trowbridge, *Geology*.  
 O. E. Klingaman, *Social Welfare*.  
 R. A. Wardall (Miss), *Home Economics*.  
 W. E. Hays, *Music*.  
 G. G. Benjamin, *History*.  
 F. E. Horack, *Political Science*.  
 B. T. Baldwin, *Child Welfare*.  
 A. Daniels (Miss), *Child Welfare*.  
 H. H. Jones, *Out-door Sports*.  
 H. L. Rietz, *Mathematics*.  
 H. Craig, *English*.  
 P. G. Clapp, *Music*.  
 B. L. Ullman, *Latin*.  
 A. M. Schlesinger, *History*.

## Associate Professors :

- R. P. Baker, *Mathematics*.  
 P. Hunt, *English*.  
 G. N. Merry, *Public Speaking*.  
 L. Pelzer, *History*.  
 J. F. Reilly, *Mathematics*.  
 L. P. Sieg, *Physics*.  
 S. B. Sloan, *English*.  
 C. M. Case, *Sociology*.

## Associate Professors—Continued :

- E. H. Lauer, *German*.  
 J. N. Pearce, *Chemistry*.  
 E. F. Piper, *English*.  
 M. A. Shaw, *English*.  
 E. N. S. Thompson, *English*.  
 C. F. Ward, *Romance Languages*.  
 A. O. Thomas, *Geology*.  
 N. R. Whitney, *Economics*.  
 C. E. Young, *Romance Languages*.  
 C. E. Cousins, *Romance Languages*.  
 L. C. Raiford, *Chemistry*.  
 H. L. Olin, *Chemistry*.  
 E. L. Waterman, *Public Health*.  
 F. A. Stromsten, *Animal Biology*.

## Assistant Professors :

- M. C. Williams (Miss), *Psychology*.  
 H. R. Dill, *Zoology*.  
 R. H. Sylvester, *Psychology*.  
 W. L. Myers, *English*.  
 J. Van der Zee, *Political Science*.  
 J. C. Briggs, *Political Science*.  
 H. Larsen, *English*.  
 G. W. Hewlett, *Physics*.  
 J. H. Scott, *English*.  
 F. E. Haynes, *Sociology*.  
 C. M. Daley (Miss), *History*.  
 E. O. Dieterich, *Physics*.  
 P. A. Bond, *Chemistry*.  
 N. S. Aurner (Mrs.), *English*.  
 E. W. Chittenden, *Mathematics*.  
 J. S. Magnuson, *Latin*.  
 J. Runner, *Geology*.  
 C. H. Farr, *Botany*.  
 H. T. Nightingale, *Political Science*.  
 K. H. Porter, *Political Science*.

## SCHOOL OF COMMERCE.

## Professor :

- N. A. Brisco, *Commerce* (Director).

## Associate Professors :

- H. B. Whaling, *Transportation*.  
 J. F. Reilly, *Statistics*.  
 C. F. Kurtz, *Business Organization*.  
 R. A. Stevenson, *Commerce*.  
 J. H. Knight, *Economics*.

**Assistant Professor :**

- C. W. Wassam, *Commerce*.  
 W. W. Jennings, *Commerce*.  
 E. W. Hills, *Commerce*.

**COLLEGE OF EDUCATION.****Professors :**

- W. F. Russell, *Education*.  
 F. C. Ensign, "  
 E. Horn, "  
 C. L. Robbins, "

**Associate Professor :**

- E. E. Lewis, *Education*.

**Assistant Professors :**

- I. King, *Education*.  
 E. J. Ashbaugh, *Education*.  
 1 Lecturer, 10 Instructors.

**COLLEGE OF LAW.****Professors :**

- D. O. McGovney.  
 E. A. Wilcox.  
 H. C. Horack.  
 P. Bordwell.  
 H. F. Goodrich.

**Associate Professors :**

- R. M. Perkins.  
 F. H. Randall.

**COLLEGE OF APPLIED SCIENCE.****Professors :**

- W. G. Raymond, *Civil Engineering*.  
 A. H. Ford, *Electrical Engineering*.  
 B. J. Lambert, *Structural Engineering*.  
 S. M. Woodward, *Theoretical and Applied Mechanics*.  
 J. B. Hill, *Electrical Engineering*.  
 F. G. Higbee, *Descriptive Geometry and Drawing*. [Ing.  
 B. P. Fleming, *Mechanical Engineering*.

**Associate Professors :**

- J. H. Dunlap, *Hydraulics and Sanitary Engineering*.  
 D. P. Gilmore, *Structural Engineering*.  
 R. B. Kittredge, *Railroad Engineering*.  
 S. H. Sims, *Mechanics*.  
 T. G. Caywood, *Descriptive Geometry and Drawing*.

**Assistant Professors :**

- F. E. Holmes, *Mechanics and Hydraulics*.  
 G. J. Keller, *Mechanical Engineering*.  
 A. H. Holt, *Descriptive Geometry and Drawing*.

**COLLEGE OF MEDICINE, DENTISTRY, AND PHARMACY.****Heads of Departments :**

- E. W. Rockwood, *Chemistry and Toxicology*.

**Heads of Departments—Continued :**

- C. S. Chase, *Materia Medica and Pharmacology*.  
 W. R. Whites, *Obstetrics and Gynecology*.  
 L. W. Dean, *Ophthalmology, Oto-Laryngology, and Oral Surgery*.  
 F. T. Breene, *Consulting Oral Surgeon, Operative Dentistry and Therapeutics*.  
 H. Albert, *Pathology and Bacteriology*.  
 J. T. McClintock, *Physiology*.  
 H. J. Prentiss, *Anatomy and Histology*.  
 C. van Epps, *Therapeutics*.  
 C. P. Howard, *Internal Medicine*.  
 J. B. Kessler, *Dermatology*.  
 C. J. Rowan, *Surgery*.  
 A. H. Byfield, *Pediatrics*.  
 G. Royal, *Homeopathic Materia Medica and Therapeutics*.

**Professors :**

- S. T. Orton, *Psychiatry*.  
 A. Steindler, *Orthopedics*.  
 W. F. Boiler, *Ophthalmology, Oto-Laryngology, and Oral Surgery*.  
 E. G. Birge, *Epidemiology Hygiene and Preventive Medicine*.  
 E. A. Rogers, *Clinical Dentistry, and Roentgenology*.  
 R. H. Volland, *Operative Technique and Oral Pathology*.  
 W. J. Teeters, *Pharmacy and Pharmacognosy*.  
 R. A. Fenton, *Oral Surgery*.

**Associate Professors :**

- J. J. Lambert, *Anatomy and Histology*.  
 E. M. McEwen, "  
 R. A. Kneiler, *Pharmacy*.

**Assistant Professors :**

- N. L. Beye, *Surgery*.  
 P. Reed, *Obstetrics and Gynecology*.  
 N. G. Alcock, *Genito-Urinary Surgery*.  
 H. A. Calhoun (Miss), *Pathology and Bacteriology*.  
 R. C. Coleman, *Gynecology and Obstetrics*.  
 C. B. McGlumphy, *Pathology and Bacteriology*.  
 R. B. Gibson, *Theory and Practice*.  
 Z. M. Cooper (Miss), *Pharmacy*.  
 J. J. Hinman, *Water and Sewage Analysis*.  
 A. W. Bryan, *Dental Therapeutics*.  
 H. F. Goodrich, *Pharmacy Law*.  
 A. L. Lane, *Military Science and Tactics*.  
 T. L. Patterson, *Physiology*.  
 H. O. Collins, *Superintendent University Hospital*.  
 W. J. McDonald, *Director of Student Health Department*.

In addition, there are 4 Lecturers, 12 Associates, 69 Instructors, and 50 Assistants.

**Post-Graduate Courses.**—

- (a) In all departments representing the Liberal Arts and Sciences.
- (b) In Medicine.
- (c) In Engineering.
- (d) In Education.
- (e) In Commerce.

**Museums.**—Anatomical and Histological Museum, Museum of Art and Archaeology, Botanical Museum, Commercial Museum, Dental Museum, Geological Museum, Pathological Museum, Pharmaceutical Museum, Roman and Pompeian Museum, Zoological Museum.

**Libraries.**—

General University Library, 146,700 volumes. *Librarian* : Miss J. E. Roberts.  
Law Library, 23,712 volumes.

**IOWA ACADEMY OF SCIENCES.** *See* DES MOINES.

**IRELAND, NATIONAL UNIVERSITY OF.** *See* DUBLIN.

**ISABELLA THORBURN COLLEGE.** *See* LUCKNOW.

**ISLAMIA COLLEGE.** *See* LAHORE.

**ITHACA (New York).**

**CORNELL UNIVERSITY,** Ithaca, New York. (1865.)

*Terms* : Three a year.

*Students* : 3,505.

**OFFICIALS.**

*President.*—J. G. Schurman, A.M., D.Sc., LL.D.

*Comptroller.*—E. L. Williams.

*Secretary.*—W. Patterson.

**Degrees conferred.**—A.B., A.M., B.Com., LL.B., M.D., D.V.M., B.Se., B.Arch., C.E., M.E., M.S., M.Arch., M.C.E., M.M.E., M.F., M.L.D., M.S.Agr., Ph.D.

**PROFESSORS.****COLLEGE OF ARTS AND SCIENCES.****Professors :**

- F. Thilly, *Philosophy*.
- E. L. Nichols, *Physics*.
- G. L. Burr, *Medieval History*.
- C. E. Bennett, *Latin*.
- J. E. Creighton, *Logic and Metaphysics*.
- E. B. Titchener, *Psychology*.
- N. Schmidt, *Semitic Languages and*  
*G. P. Bristol, Greek.* [Literature.
- W. F. Willcox, *Economics and Statistics*.
- L. M. Dennis, *Inorganic Chemistry*.
- J. E. Trevor, *Thermodynamics*.
- G. H. Hull, *American History*.
- W. R. Orndorff, *Organic and Physio-*  
*logical Chemistry*.
- W. D. Bancroft, *Physical Chemistry*.
- E. G. Merritt, *Physics*.
- C. V. P. Young, *Physical Culture*.
- A. T. Kerr, *Anatomy*.
- J. McMahon, *Mathematics*.
- J. H. Tanner
- F. Bedell, *Applied Electricity*.
- W. W. Rowlee, *Botany*.
- H. Ries, *Geology*. [and *Æsthetics*.
- W. A. Hammond, *Ancient Philosophy*
- H. E. Dann, *Music*.
- E. Albee, *Philosophy*.

**Professors—Continued :**

- B. F. Kingsbury, *Histology and Em-*  
*S. Simpson, Physiology.* [bryology.
- M. W. Sampson, *English Literature*.
- W. Strunk, *English*.
- H. C. Elmer, *Latin*.
- C. L. Durham
- G. D. Harris, *Paleontology and Strati-*  
*G. W. Cavanagh, Chemistry.* [graphic *Geology*.
- J. S. Shearer, *Physics*.
- J. I. Hutchinson, *Mathematics*.
- V. Snyder, *Mathematics*.
- A. B. Faust, *German*.
- E. M. Chamot, *Sanitary Chemistry and*  
*Toxicology.* [Chemistry.
- A. W. Browne, *Inorganic and Analytical*
- A. C. Gill, *Mineralogy and Petrography*.
- J. P. Bretz, *American History*. [nology.
- J. G. Needham, *Entomology and Lim-*
- G. W. Herriek, *Economic Entomology*.
- G. N. Lauman, *Rural Economy*.
- S. P. Orth, *Political Science*.
- A. A. Young, *Economics and Finance*.
- J. A. Winans, *Public Speaking*.
- O. A. Johannsen, *General Biology*.
- J. F. Mason, *Romance Languages*.
- L. Cooper, *English Language and*  
*Literature*.
- A. W. Boesche, *German*.



**Professors—Continued :**

- P. R. Pope, *German*.  
 R. M. Ogden, *Education*.  
 G. L. Hamilton, *Romance Languages and Literatures*.  
 O. M. Leland, *Astronomy and Geodesy*.  
 H. J. Davenport, *Economics*.  
 C. Becker, *Modern European History*.  
 F. A. Barton, *Military Science and Tactics*.  
 C. D. Child, *Physics*.  
 F. K. Richtmyer, *Physics*.  
 R. C. Gibbs, *Physics*.  
 D. English, *Economics and Accounting*.  
 P. Gaehr, *Physics*.

**Assistant Professors :**

- F. C. Prescott, *English*.  
 C. S. Northup, "  
 E. Blaker, *Physics*. [*Literatures*.  
 O. G. Guerlac, *Romance Languages and*  
 H. D. Reed, *Neurology and Vertebrate*  
 J. Q. Adams, *English*. [*Zoology*.  
 F. R. Sharpe, *Mathematics*.  
 W. B. Carver, "  
 A. Ranum, "  
 H. L. Jones, *Greek*.  
 E. P. Andrews, *Archeology*.  
 D. C. Gillespie, *Mathematics*.  
 J. C. Bradley, *Entomology*.  
 O. D. Von Engeln, *Physical Geography*.  
 B. S. Monroe, *English*.  
 R. S. Saby, *Political Science*.  
 H. P. Weld, *Psychology*.  
 G. B. Muchmore, *Public Speaking*.  
 L. Pumpelly, *Romance Languages and*  
*Literatures*.  
 R. H. Keniston, *Romance Languages*  
*and Literatures*.  
 A. P. Usher, *Economics*.  
 R. P. Anderson, *Chemistry*.  
 W. A. Hurwitz, *Mathematics*.  
 J. B. Sumner, *Biochemistry*.  
 T. R. Briggs, *Physical Chemistry*.  
 A. H. Wright, *Zoology*.  
 A. A. Allen, *Ornithology*.  
 W. S. Foster, *Education*.  
 L. N. Broughton, *English*.  
 H. L. Reed, *Economics*.  
 A. M. Drummond, *Public Speaking*.  
 R. E. Somers, *Geology*.  
 J. T. Quarles, *Music*.  
 C. F. Craig, *Mathematics*.  
 F. W. Owens, "  
 C. C. Bidwell, *Physics*.  
 E. H. Kennard, "  
 A. H. Sweet, *English History*.  
 A. L. Andrews, *German*.  
 C. Sturgis, *Romance Languages*.  
 F. M. Smith, *English*.  
 A. R. Shadle, *Zoology*.  
 H. E. Howe, *Physics*.  
 E. L. Hunt, *Public Speaking*.  
 F. G. Wick (Miss), *Physics*.  
 48 Instructors, 53 Assistants.

**THE MEDICAL COLLEGE.**

(In the City of New York.)

**Professors :**

- G. Woolsey, *Clinical Surgery*.  
 J. C. Edgar, *Obstetrics and Clinical*  
 J. Ewing, *Pathology*. [*Midwifery*.  
 G. Lusk, *Physiology*.  
 F. S. Meara, *Therapeutics*.  
 R. A. Hatcher, *Pharmacology*.  
 C. R. Stockard, *Anatomy*.  
 L. A. Conner, *Medicine*.  
 W. J. Elser, *Bacteriology*.  
 S. R. Benedict, *Chemistry*.  
 C. L. Gibson, *Surgery*.  
 J. E. Winters, *Clinical Medicine*.  
 C. L. Dana, " "  
 G. T. Elliott, " "  
 F. Whiting, *Clinical Surgery*.  
 E. L. Keyes, " "  
 R. G. Reese, " "  
 O. H. Schultze, *Medical Jurisprudence*.  
 A. S. Taylor, *Clinical Surgery*.  
 W. C. Thro, *Clinical Pathology*.  
 A. Lambert, *Clinical Medicine*.  
 C. E. Nammack, *Clinical Medicine*.  
 I. S. Haynes, *Clinical Surgery*.  
 W. B. Coley, " "  
 J. Rogers, " "  
 H. Smith, " "  
 B. T. Lee, " "  
 C. Wallace, " "  
 H. Lilienthal, " "  
 L. G. Cole, *Röntgenology*.  
 J. C. Torrey, *Hygiene*.  
 G. H. Kirby, *Clinical Medicine*.

**Associate Professors :**

- J. A. Hartwell, *Surgery and Clinical*  
 H. F. Swift, *Medicine*. [*Surgery*.  
 G. G. Ward, *Clinical Surgery*.  
 F. Kennedy, *Clinical Medicine*.

**Assistant Professors :**

- E. F. Du Bois, *Medicine*.  
 J. M. Hitzrot, *Clinical Surgery*.  
 J. F. Gudernatsch, *Anatomy*.  
 W. H. Sheldon, *Clinical Medicine*.  
 M. Goodridge, *Therapeutics*.  
 P. R. Turnure, *Clinical Surgery*.  
 C. Norris, *Pathological Anatomy*.  
 H. W. Frink, *Neurology*.  
 J. P. Hoguet, *Clinical Surgery*.  
 C. Eggleston, *Pharmacology*.  
 48 Instructors, 18 Clinical Instructors,  
 18 Assistants, 3 Lecturers.

**FACULTY OF MEDICINE.****Professors :** (In Ithaca.)

- A. T. Kerr, *Anatomy*.  
 W. R. Orndorff, *Organic Chemistry*.  
 B. F. Kingsbury, *Histology and Em-*  
 S. Simpson, *Physiology*. [*bryology*.]

**Assistant Professor :**

- J. B. Sumner, *Biochemistry*.  
 5 Instructors, 3 Assistants.

### NEW YORK STATE VETERINARY COLLEGE.

#### Professors :

- V. A. Moore, *Comparative Pathology*.  
 P. A. Fish, *Veterinary Physiology*.  
 G. S. Hopkins, *Veterinary Anatomy and Anatomical Methods*.  
 W. L. Williams, *Principles and Practice of Veterinary Surgery, Obstetrics, Zootechny, and Jurisprudence*.  
 D. N. Udall, *Veterinary Medicine and Hygiene*.  
 H. J. Milks, *Therapeutics and Small Animal Clinic*.  
 J. N. Frost, *Veterinary Surgery*.  
 H. H. Wing, *Animal Husbandry*.  
 B. F. Kingsbury, *Histology and Embryology*.  
 A. W. Browne, *Inorganic and Analytical Chemistry*.  
 E. S. Savage, *Animal Husbandry*.  
 M. W. Harper         "  
 E. G. Merritt, *Physics*.         "  
 R. C. Gibbs         "

#### Assistant Professors :

- E. Sunderville, *Veterinary Anatomy*.  
 C. E. Hayden, *Veterinary Physiology*.  
 R. R. Birch, *Superintendent of the Veterinary Experiment Station*.  
 S. A. Goldberg, *Pathology*.  
 H. Asmus, *Horseshoeing*.  
 W. E. Muldoon, *Materia Medica*.  
 W. A. Hagan, *Pathology and Bacteriology*.  
 W. D. Way, *Veterinary Medicine*.  
 C. M. Carpenter, *Laboratory Diagnosis*.  
 H. D. Reed, *Zoology*.  
 6 Instructors, 3 Assistants.

### COLLEGE OF AGRICULTURE.

(In New York State.)

#### Professors :

- A. R. Mann, *Rural Social Organization*.  
 I. P. Roberts, *Agriculture*.  
 J. H. Comstock, *Entomology and General Invertebrate Zoology*.  
 H. H. Wing, *Animal Husbandry*.  
 T. L. Lyon, *Soil Technology*.  
 J. L. Stone, *Farm Practice*.  
 J. E. Rice, *Poultry Husbandry*.  
 G. W. Cavanaugh, *Agricultural Chemistry*.  
 G. N. Lauman, *Rural Economy*.  
 H. H. Whetzel, *Plant Pathology*.  
 E. O. Fippin, *Soil Technology*.  
 G. F. Warren, *Farm Management*.  
 W. A. Stocking, *Dairy Industry*.  
 W. M. Wilson, *Meteorology*.  
 R. S. Hosmer, *Forestry*.  
 J. G. Needham, *Entomology and Limnology*.  
 R. A. Emerson, *Plant Breeding*.  
 H. H. Love         "         "

#### Professors—Continued :

- D. Reddick, *Plant Pathology*.  
 E. G. Montgomery, *Farm Crops*.  
 G. A. Works, *Rural Education*.  
 F. Rose (Miss), *Home Economics*.  
 M. Van Rensselaer (Miss), *Home Economics*.  
 J. A. Bizzell, *Soil Technology*.  
 G. W. Herrick, *Economic Entomology*.  
 H. W. Riley, *Rural Engineering*.  
 H. E. Ross, *Dairy Industry*.  
 H. C. Troy  
 S. N. Spring, *Silviculture*.  
 K. M. Wiegand, *Botany*.  
 W. H. Chandler, *Pomology*.  
 A. B. Recknagel, *Forest Management and Utilization*.  
 M. W. Harper, *Animal Husbandry*.  
 C. R. Crosby, *Entomology*.  
 E. S. Savage, *Animal Husbandry*.  
 K. C. Livermore, *Farm Management*.  
 E. A. White, *Floriculture*.  
 A. C. Beal  
 H. A. Hopper, *Animal Husbandry*.  
 E. S. Guthrie, *Dairy Industry*.  
 M. C. Burritt, *Extension Service, and Vice-Director of Extension*.  
 W. C. Baker, *Drawing*.  
 M. F. Barrus, *Plant Pathology*.  
 L. J. Cross, *Agricultural Chemistry*.  
 O. A. Johannsen, *General Biology*.  
 C. H. Myers, *Plant Breeding*.  
 B. Adams, *Editor of Publications*.  
 D. J. Crossley, *Extension Service*.  
 A. C. King, *Farm Practice*.  
 C. Bitten, *Secretary and Registrar*.  
 G. A. Everitt, *Extension Teaching*.  
 F. L. Griffin, *Rural Education*.  
 L. Knudson, *Botany*.  
 E. G. Davis, *Landscape Art*.  
 R. W. Curtis         "  
 C. B. Hutchison, *Plant Breeding*.  
 R. W. Rees, *Pomology*.  
 J. R. Schramm, *Botany*.  
 H. O. Buekman, *Soil Technology*.  
 R. H. Wheeler, *Extension Service*.  
 W. F. Lusk, *Rural Education*.  
 P. Work, *Vegetable Crops*.  
 J. Bentley, *Forest Engineering*.  
 P. J. Kruse, *Rural Education*.  
 R. M. Stewart         "  
 J. E. Boyle, *Rural Economy*.  
 D. Sanderson, *Rural Organization*.  
 H. C. Thompson, *Vegetable Gardening*.  
 W. J. Wright, *Rural Education*.  
 J. E. Boyle, *Rural Economy*.

#### Assistant Professors :

- J. C. Bradley, *Systematic Entomology*.  
 G. C. Embury, *Agriculture*.  
 H. B. Young (Mrs.), *Home Economics*.  
 A. B. Comstock (Mrs.), *Nature Study*.  
 H. M. Fitzpatrick, *Plant Pathology*.  
 B. B. Robb, *Rural Engineering*.

**Assistant Professors—Continued :**

W. W. Fisk, *Dairy Industry*.  
 A. J. Warner (Miss), *Home Economics*.  
 R. Gilkey, *Extension Service*.  
 C. T. Gregory, *Plant Pathology*.  
 L. R. Hesler       "       "  
 W. H. Rankin       "       "  
 E. W. Benjamin, *Poultry Husbandry*.  
 A. J. Eames, *Botany*.  
 J. K. Wilson, *Soil Technology*.  
 E. E. Barker, *Plant Breeding*.  
 R. Matheson, *Economic Entomology*.  
 B. E. Hazard (Miss), *Home Economics*.  
 D. Lumsden, *Floriculture*.  
 J. H. Barron, *Farm Crops*.  
 G. P. Scoville, *Farm Management*.  
 A. A. Allen, *Ornithology*.  
 L. A. Maynard, *Animal Husbandry*.  
 F. M. Blodgett, *Plant Pathology*.  
 H. E. Babcock, *Extension Service*.  
 E. R. King, *Entomology*.  
 F. E. Rice, *Agricultural Chemistry*.  
 L. W. Sharp, *Botany*.  
 J. C. McCurdy, *Rural Engineering*.  
 C. A. Boutelle, *Animal Husbandry*.  
 C. H. Royce       "       "  
 G. H. Collingwood, *Forestry*.  
 W. W. Warsaw, *Soil Technology*.  
 O. F. Curtis, *Botany*.  
 T. J. McInerney, *Dairy Industry*.  
 E. D. Montillon, *Landscape Art*.  
 J. E. Reyna, *Drawing*.  
 E. L. Overholser, *Pomology*.  
 A. J. Heinicke       "       "  
 O. B. Kent, *Poultry Husbandry*.  
 H. W. Schneck, *Vegetable Gardening*.  
 K. J. Seulke, *Animal Husbandry*.  
 L. M. Massey, *Plant Pathology*.  
 B. Blackmore, *Home Economics*.  
 B. A. Chandler, *Forest Utilization*.  
 E. G. Misner, *Farm Management*.  
 M. F. Henry (Miss), *Home Economics*.  
 S. L. Brewer (Miss)       "       "  
 H. Canon (Miss)       "       "  
 W. K. Blodgett, *Rural Engineering*.  
 M. J. Smith, *Animal Husbandry*.  
 J. H. Voorhees, *Farm Crops*.  
 L. Graves (Miss), *Home Economics*.  
 H. Monsch (Miss)       "       "  
 G. F. Heuser, *Poultry Husbandry*.  
 W. I. Myers, *Farm Management*.  
 74 Instructors, 43 Assistants.

**COLLEGE OF ARCHITECTURE.****Professors :**

C. A. Martin, *Architecture*.  
 O. M. Brauner, *Drawing and Painting*.  
 A. C. Phelps, *Architecture*.  
 G. Young, jr.       "       "  
 E. V. Meeks       "       "

**Assistant Professor :**

G. Midjo, *Freehand Drawing and Modelling*.  
 L. P. Burnham, *Design*.  
 G. R. Chamberlain, *Freehand Drawing*.  
 S. Stevens, *Design*.  
 H. S. Gutsell, *Freehand Drawing*.  
 1 Instructor.

**COLLEGE OF CIVIL ENGINEERING.****Professors :**

E. E. Haskell, *Experimental Hydraulics*.  
 H. S. Jacoby, *Bridge Engineering*.  
 H. N. Ogden, *Sanitary Engineering*.  
 F. A. Barnes, *Railroad Engineering*.  
 O. M. Leland, *Geodesy and Astronomy*.  
 S. G. George, *Mechanics of Engineering*.

**Assistant Professors :**

J. T. Parson, *Drawing*. [ics.  
 E. W. Schoder, *Experimental Hydraulics*.  
 M. A. Pond, *Civil Engineering*.  
 F. J. Seery       "       "  
 E. W. Rettger, *Applied Mechanics*.  
 C. L. Walker, *Sanitary Engineering*.  
 P. H. Undergood, *Topographic and Geodetic Engineering*.  
 E. N. Burrows, *Bridge Engineering*.  
 W. L. Conwell, *Railroad Engineering*.  
 L. A. Lawrence, *Topographic and*  
 5 Instructors. [Geodetic Engineering.

**SIBLEY COLLEGE OF MECHANICAL ENGINEERING AND THE MECHANIC ARTS.****Professors :**

A. W. Smith, *Power Engineering*.  
 D. S. Kimball, *Machine Design and Industrial Engineering*.  
 G. R. McDermott, *Structural Design*.  
 H. Diederichs, *Experimental Engineering*.  
 A. Gray, *Electrical Engineering*. [ing.  
 W. N. Barnard, *Power Engineering*.  
 V. Karapetoff, *Electrical Engineering*.  
 E. H. Wood, *Mechanics of Engineering*.  
 C. D. Albert, *Machine Design*. [ing.  
 A. E. Wells, *Machine Construction*.  
 F. O. Ellenwood, *Power Engineering*.  
 W. M. Sawdon, *Experimental Engineering*. [ing.

**Assistant Professors :**

G. B. Upton, *Experimental Engineering*.  
 S. S. Garrett, *Mechanics of Engineering*.  
 V. R. Gage, *Experimental Engineering*.  
 R. Matthews, *Power Engineering*.  
 C. W. Ham, *Machine Design*.  
 M. A. Lee       "       "  
 J. G. Pertsch, *Electrical Engineering*.  
 F. G. Switzer, *Hydraulics*.  
 W. C. Ballard, *Electrical Engineering*.  
 F. S. Rogers, *Machine Design*.  
 C. E. Townsend       "       " [ants.  
 9 Instructors, 3 Foremen, and 6 Assistants.

**Library.**—University Library of 560,000 volumes. *Librarian* : W. Austen.

## EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—A. R. Mann.

## JAMMU (Kashmir State).

PRINCE OF WALES COLLEGE, Jammu, Kashmir State. (1907.)

Affiliated to the University of the Punjab, Lahore.

Terms : Two a year.

Students : 240.

## OFFICIALS.

Principal.—S. Robson, M.A.

## PROFESSORS.

## Professors :

S. Robson, *English*.  
 Fram. M. Dadina, *Economics*.  
 A. Bannerji, *English*.  
 T. Sanyal  
 T. L. Manghirmalani, *History*.  
 U. N. Kundu, *Mathematics*.  
 Siddheshwar Varma, *Sanskrit*.  
 Mohammad Ibrahim, *Persian*.

Library.—The College Library. Librarian : Pandit Kantha Raul.  
 Museum of Geology.

## Professors—Continued :

Abdul Hadi, *Arabic*.  
 Seva Ram Suri, *Physics*.  
 Prabhu Dayal Dhawan, *Chemistry*.  
 D. N. Wadia, *Geology*.  
 B. K. Basu

## Assistant Professor :

M. C. Khosla, *Physics*.  
 1 Demonstrator.

## JEWISH THEOLOGICAL SEMINARY. See NEW YORK.

## JOHANNESBURG (South Africa).

SOUTH AFRICAN SCHOOL OF MINES AND TECHNOLOGY, Plein Square, Johannesburg. (1896.)

Terms : Two a year.

## OFFICIALS.

Principal.—Jan H. Hofmeyer, M.A.

Secretary to Senate.—R. B. Young, M.A., D.Sc., F.R.S.E.

## PROFESSORS.

J. H. Hofmeyer, *Chemistry*.  
 H. J. W. Tillyard, *Chemistry*.  
 J. L. Landau, *Hebrew*.  
 C. M. Drennan, *English, Logic, and*  
 J. D. A. Krige, *Dutch*. [Ethics.  
 Morgan Watkin, *French*.  
 W. Keith Macgregor, *Psychology and*  
*Education*.  
 R. A. Lehfeldt, *Economics*.  
 W. M. Macmillan, *History*.  
 J. P. Dalton, *Mathematics*.  
 H. H. Paine, *Physics*.  
 J. A. Wilkinson, *Chemistry*.

C. E. Moss, *Botany*.  
 H. B. Fantham, *Zoology*.  
 R. B. Young, *Geology*.  
 E. P. Stibbe, *Anatomy*.  
 E. H. Cluver, *Physiology*.  
 J. S. Cellier, *Mining and Surveying*.  
 G. H. Stanley, *Metallurgy and Assaying*.  
 R. H. Charters, *Civil Engineering*.  
 J. Orr, *Mechanical Engineering*.  
 H. J. S. Heather, *Electrotechnics*.  
 J. Findlay, *Accounting*.  
 7 Lecturers, 20 Assistants.

## JOHNS HOPKINS UNIVERSITY. See BALTIMORE.

## KAMPU (India).

THE CHEMICAL AND TECHNICAL LABORATORY, Kampu, Lashkar, Gwalior State, India.

Founded at the instigation of His Highness the Maharaja of Seindia, to undertake the analytical work of the various departments and factories of the State. Additional activities consist of the development of the mineral resources, and the industries of the State, and the training of students in Technical Analysis and Research.



**OFFICIALS.**

*Director.*—M. J. Gajjar, M.A., F.C.S.

*Superintendent.*—F. B. Shroff, M.A.

*Research Assistant.*—M. R. Engineer, B.Ag.

4 Assistants.

**KANSAS UNIVERSITY.** See **LAWRENCE.**

**KAPURTHALA (India).**

**RANDHIR COLLEGE,** Kapurthala, Punjab, India. (1896.)

Affiliated to the University of the Punjab, Lahore.

*Terms :* Two a year.

*Students :* 180.

**OFFICIALS.**

*Principal.*—Pt. Mathura Das, M.A., LL.B.

*Librarian.*—L. B. Das.

**PROFESSORS.**
**COLLEGE OF ARTS.**
**Professors :**

Pt. Mathura Das, *English and Philosophy.*

L. T. Ram, *Mathematics.*

B. A. Singh, *Science.*

L. J. Lal, *English and History.*

**COLLEGE OF ORIENTAL  
LANGUAGES AND HISTORY.**
**Professors :**

Pandit Sir R. Shastie.

M. M. A. Manhui Fazal, *Persian and Arabic.*

4 Pandits, 7 Masters.

**KENNAIRD COLLEGE.** See **LAHORE.**

**KEW ROYAL BOTANIC GARDENS.** See **LONDON.**

**KHALSA COLLEGE.** See **AMRITSAR.**

**KHARTOUM (Sudan).**

**GORDON MEMORIAL COLLEGE,** Khartoum, Sudan. (1899.)

*Budget (1919):* Le. 29750.

**OFFICIALS.**

*President.*—General Sir R. Wingate.

*Hon. Treasurer.*—Hon. A. R. Mills, M.P.

*Hon. Secretary.*—Mr. F. Van De Linde.

*Principal and Director of Education.*—Mr. J. W. Crowfoot.

*Acting Assistant Principal.*—Mr. N. R. Udai.

**WELLCOME TROPICAL RESEARCH LABORATORIES.**

*Budget (1919):* Le. 13360.

**Professors :**

A. J. Chalmers, *Director.*

Major R. G. Archibald, *Assist. Director and Pathologist.*

Major W. E. Marshall, *Government Bacteriologist.*

R. E. Massey, *Government Botanist.*

A. F. Joseph, *Government Chemist.*

G. A. Freak, *Assist. Government Chemist.*

Captain F. J. Martin, *Assist. Government Chemist.*

H. H. King, *Government Entomologist.*

Captain H. W. Bedford, *Assist. Government Entomologist.*

**GEOLOGICAL SURVEY.**

*Budget (1919):* Le. 2250.

G. W. Grabham, *Government Geologist.*

(Vacant), *Assist. Geologist.*



**ANTIQUITIES SERVICE.**

(Antiquities Museum attached.)

P. Drummond, *Acting Conservator.*

**NATURAL AND ETHNOLOGICAL MUSEUM.**

H. H. King, *Acting Curator.*

Library.—Arabic and Sudan. *Librarian*: S. Hillelson.

**KING'S COLLEGE, UNIVERSITY OF.** *See WINDSOR.*

**KINGSTON (Jamaica).**

**THE INSTITUTE OF JAMAICA,** Kingston, Jamaica. (1879.)

*Secretary and Librarian.*—Frank Cundall, F.S.A.

Objects to encourage Literature, Science, and Art in the Island.

Library of 15,000 volumes, and a special West Indian Reference Library of 5,000 volumes.

Museum of Natural History, especially rich in specimens of the fauna and flora of Jamaica; also contains many Arawak implements.

Art Gallery containing pictures illustrating the history of Jamaica.

**KINGSTON (Ontario).**

**QUEEN'S UNIVERSITY.** No particulars received.

**QUEEN'S THEOLOGICAL COLLEGE,** Kingston, Ontario, Canada. (1842.)

Affiliated since 1912 to Queen's University. Before that Theology formed a faculty in the University, the University being at that time connected with the Presbyterian Church.

*Sessions*: One a year. *Students*: 35.

**OFFICIALS.**

*Principal.*—S. W. Dyde, D.D., LL.D.

*Secretary.*—W. Morgan, M.A., D.D.

Degrees conferred.—The degrees of B.D. and D.D. are conferred by Queen's University on the recommendation of the Theological Senate. The College has the right to confer degrees of its own, but does not exercise it.

*Hoods.*—As Queen's University.

**PROFESSORS.**

Rev. S. W. Dyde, *Church History.*

Rev. W. S. Jordan, *Semitic Languages and Old Testament Criticism.*

Rev. W. Morgan, *Systematic Theology and Apologetics.*

Rev. J. F. Fadyen, *New Testament and Criticism Literature.*

(Vacant), *Practical Theology.*

Rev. H. T. Wallace, *Semitic Languages.*  
1 Lecturer.

**KUALA LUMPUR.**

**DEPARTMENT OF AGRICULTURE, FEDERATED MALAY STATES.** (1905.)

Head Quarters, Kuala Lumpur, Selangor, F.M.S.

**OFFICIALS.**

*Director.*—L. Lewton-Brain.

*Assistant to Director.*—(Vacant.)

*Agricultural Chemist.*—B. J. Eaton.

*Assistant Agricultural Chemist.*—S. W. Bunker.

*Assistant Agricultural Chemist.*—(Vacant, three.)

*Chief Agricultural Inspector.*—F. W. South.

*Assistant Agricultural Inspector.*—A. G. G. Ellis.  
*Assistant Agricultural Inspector.*—F. de la Mare Norris.  
*Assistant Agricultural Inspector.*—H. H. Stirrup.  
*Assistant Agricultural Inspector.*—(Vacant, six.)  
*Inspector of Coconuts.*—T. C. Nock.  
*Economic Botanist.*—(Vacant.)  
*Assistant Economic Botanist.*—(Vacant.)  
*Mycologist.*—A. Sharples.  
*Assistant Mycologist.*—W. N. C. Belgrave.  
*Assistant Mycologist.*—(Vacant, two.)  
*Entomologist.*—(P. B. Richards, acting) (Vacant.)  
*Assistant Entomologist.*—P. B. Richards.  
*Systematic Entomologist.*—C. B. Holman Hunt.  
*Agriculturist.*—F. G. Spring.  
*Assistant Agriculturist.*—B. Bunting.  
*Assistant Agriculturist.*—(Vacant, two.)  
*Superintendent of Government Plantations.*—J. Lambourne.  
*Superintendent of Government Plantations.*—J. N. Milsum.  
*Agricultural Instructor.*—H. W. Jack.  
*Agricultural Instructor.*—D. H. Grist.  
*Physiologist.*—(Vacant.)  
*Geneticist.*—(Vacant.)

**Headquarters.**—Laboratories, Library, Experimental Rubber Vulcanization Factory, Experimental Papermaking Factory, Experimental Oil Machinery, Raw Rubber Factory, etc., Experimental Plantation and Botanic Gardens.

**Sub-Stations.**—Experimental Plantations, Batu Tiga, Kuala Kangsar, Gunong Angsi, Krian (rice), Kuala Pilah (rice and fruit).

**Publications.**—A monthly bulletin of tropical agriculture (Agricultural Bulletin, F.M.S.), special bulletins containing original researches, etc., by members of the Staff.

**LADY HARDINGE MEDICAL COLLEGE.** See DELHI.

**LAFAYETTE COLLEGE.** See EASTON.

**LAFAYETTE (Indiana).**

**PURDUE UNIVERSITY.** No particulars received.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—C. G. Woodbury.

**LAHORE (India).**

**UNIVERSITY OF THE PUNJAB, Lahore, Punjab. (1882.)**

*Terms :* Two a year.

*Budget :* Income, Rs. 4,33,164.

Expenditure, Rs. 3,83,284.

# OFFICIALS.

*Chancellor.*—His Honour Sir E. D. MacLagan, M.A., K.C.I.E., C.S.I., I.C.S.

*Vice-Chancellor.*—The Hon. Sir H. J. Maynard, M.A., C.S.I., I.C.S.

*Registrar.*—A. C. Woolner, M.A. (On leave.)

*Officiating Registrar.*—P. N. Dutt, B.A., B.Sc.

*Dean of the Oriental Faculty.*—Dr. Sh. Mohammed Iglal, M.A., Ph.D.

*Dean of the Faculty of Arts.*—Rev. E. D. Lucas, M.A., D.D.

*Dean of the Faculty of Science.*—A. S. Hemmy, B.A., M.Sc.

*Dean of the Faculty of Medicine.*—Lt.-Col. D. W. Sutherland, I.M.S., C.I.E.

*Dean of the Faculty of Law.*—(Vacant.)

*Dean of the Faculty of Agriculture.*—W. D. Roberts, B.Sc.

## Degrees conferred :

*Degrees.*

D.O.L. -	-	Hood scarlet, lined with pearl grey.
M.O.L. -	-	Sash black, bordered and fringed with claret-coloured silk.
B.O.L. -	-	Sash black, bordered with drab silk.
D.Litt. -	-	Hood crimson, lined with white.
M.A. -	-	Hood black, lined with claret-coloured silk.
B.T. -	-	Hood black, lined with peacock blue.
B.A. -	-	Hood black, lined with drab.
LL.D. -	-	Hood scarlet, lined with dark blue.
LL.B. -	-	Hood dark blue, lined with white.
M.D. -	-	Hood scarlet, lined with dark mauve.
M.S. -	-	Hood light mauve, lined with white.
M.B. -	-	Hood black, lined with plum-coloured cloth.
D.Sc. -	-	Hood scarlet, lined with gold-coloured silk.
M.Sc. -	-	Hood orange, lined with white.
B.Sc. -	-	Hood black, lined with white.

*Hoods.*

## UNIVERSITY PROFESSORS.

G. Matthri, *Zoology*.  
S. R. Kashyap, *Botany*.

M. M. Shafi, *Classical Arabic*.  
A. C. Woolner, *Sanskrit*.

Most of the teaching work of this University is done by Professors of Affiliated Colleges.

**Post-Graduate Courses.**—M.A. and M.Sc. Courses in the following subjects: English, Arabic, Sanskrit, Persian, Mathematics, History, Philosophy, Economics, Physics, Chemistry, Zoology and Comparative Anatomy, Botany, Geology and Physiology.

**Library.**—There is a Library comprising about 39,313 volumes maintained by the University. *Librarian* : A. C. Woolner, M.A. *Officiating Librarian* : Mukand Lal.

## AFFILIATED INSTITUTIONS.

Oriental College, Lahore.  
Government College, Lahore.  
Forman Christian College, Lahore.  
D.A.V. College, Lahore.  
St. Stephen's College, Delhi.  
Islamia College, Lahore.  
Khalsa College, Amritsar.  
Mohindra College, Patiala.  
Dyal Singh College, Lahore.  
Sanatan Dharam College, Lahore.  
Gordon College, Rawalpindi.  
Prince of Wales College, Jammu.  
Sri Paratap College, Srinagar, Kashmir.  
Edwardes' College, Peshawar.

Murray College, Sialkot.  
Islamia College, Peshawar.  
Hindu College, Delhi.  
Kinnaird College, Lahore.  
Sadiq-Egerton College, Bahawalpur.  
Randhir College, Kapurthala.  
G. N. Khalsa College, Gujranwala.  
Lady Hardinge Medical College, Delhi.  
Ramjas College, Delhi.  
D.A.V. College, Jullunder.  
Central Training College, Lahore.  
The Law College, Lahore.  
The Medical College, Lahore.  
Agricultural College, Lyallpur.

## KING EDWARD MEDICAL COLLEGE, Lahore, Punjab. (1860.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 345.

## OFFICIALS.

*Principal.*—Lieut.-Col. D. W. Sutherland, C.I.E., M.D., C.M., M.R.C.P., F.R.S., I.M.S.

**Degrees conferred.**—M.D., M.S., M.B., B.S.

## PROFESSORS.

Lieut.-Col. D.W. Sutherland, *Medicine*.  
 Lieut.-Col. D. M. Davidson, *Forensic Medicine*.  
 Lieut.-Col. E. V. Hugo, *Surgery*.  
 Capt. J. J. Harper Nelson, *Material Medica*.  
 Brevet-Col. R. Heard, *Midwifery*.  
 Lieut.-Col. D. M. Davidson, *Midwifery*.  
 Lieut.-Col. H. Ainsworth, *Diseases of Eye, Ear, and Throat*.  
 Lieut.-Col. S. Browning Smith, *Hygiene*.

Lieut.-Col. H. M. Mackenzie, *Hygiene*.  
 Major W. H. C. Forster, *Pathology*.  
 Major H. H. Broome, *Anatomy*.  
 Capt. R. H. Bott, *Operative Surgery*.  
 Dr. C. C. Caleb, *Physiology*.  
 Hon. Capt. J. F. Fleming, *Mental Diseases*.  
 18 Assistant Surgeons, 5 Clinical Assistants, 3 Lecturers, 10 Demonstrators.

**GOVERNMENT COLLEGE, Lahore. (1864.)**

Affiliated to the University of the Punjab, Lahore.

*Students* : 580.

## OFFICIALS.

*Principal*.—A. S. Hemmy, B.A., M.Sc.

## PROFESSORS.

**Professors :**

A. S. Hemmy, *Physics*.  
 F. R. Tomlinson, *English*.  
 H. L. O. Garrett, *History*.  
 L. T. Watkins, *English*.  
 H. B. Dunnicliff, *Chemistry*.  
 (Vacant), *Zoology*.  
 G. D. Sondhi, *Economics*.  
 G. S. Chowla, *Mathematics*.  
 S. R. Kashyap, *Botany*.  
 G. Singh, *Sanskrit*.  
 C. Anand, *Physics*.  
 Md. Sadr-ud-din, *Arabic*.  
 Fazl-i-Haqq, *Persian*.

**Assistant Professors :**

A. H. Khan, *English and History*.  
 B. Lal, *Biology*.  
 M. Lal, *Mathematics*.  
 M. Said, *English*.  
 A. Rum, *English*.  
 B. Manmohan, *English and Economics*.  
 H. Rai, *Chemistry*.  
 L. Ghose, *Biology*.  
 P. Singh, *Chemistry*.  
 S. K. Kapur, *Mathematics*.  
 Sada Nand, *Physics*.

**FORMAN CHRISTIAN COLLEGE, The Mall, Lahore, Punjab. (1866.)**

Affiliated with the University of the Punjab, Lahore.

## OFFICIALS.

*Principal*.—The Rev. E. D. Lucas, D.D., M.A.

*Vice-Principal*.—The Rev. C. H. Rice, B.A.

## PROFESSORS.

**Professors :**

Rev. E. D. Lucas, *Economics*.  
 Rev. C. H. Rice, *Philosophy*.  
 Rev. R. Wilson, *History*.  
 P. C. Speers, *Chemistry*.  
 J. M. Benade, *Physics*.  
 Rev. J. B. Weir, *English*.  
 R. Siraj-ud-Din, *History and Philosophy*.  
 S. N. D. Gupta, *Mathematics*.  
 P. Samuels-Lall, "  
 D. Sivaprakasum, *English*.

**Professors—Continued :**

L. I. Das, *History*.  
 L. M. C. Sethi, *Biology*.  
 A. B. Yajnik, *Chemistry*.  
 H. S. Bennett, *Industrial Chemistry*.

**Assistant Professors :**

P. M. Lal, *English*.  
 Barakat Ullah, "  
 L. S. Lal, *Chemistry*.  
 L. M. C. Suri, *Mathematics*.  
 I. D. Parshad, *Economics*.  
 6 Lecturers.

**Post-Graduate Courses.**—Courses leading to the degree of M.A. in English, History, Mathematics, Economics, and to the M.Sc. in Chemistry.

A new course leading to the degree of M.A. in Persian is to be initiated this autumn.

**Museum.**—Small Archeological Museum.

**Library.**—Library of 10,300 volumes. *Librarian* : I. Durga Parshad, M.A.

**THE LAW COLLEGE**, Lahore, Punjab, India. (1870.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 500.

*Principal*.—Kanwar Sain, M.A., Barrister-at-Law.

1 Lecturer, 6 Readers.

**Library**.—Law College Library. *Librarian* : Missar Radhakishan.

**ORIENTAL COLLEGE**, Lahore, Punjab. (1870.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 61.

OFFICIALS.

*Principal*.—A. C. Woolner, M.A.

4 Pandits, 2 Maulvis, 2 Munshis, 2 Bhais, 3 Teachers.

**KINNAIRD COLLEGE FOR WOMEN**, Lahore, Punjab, India. (1879.)

Affiliated to the University of the Punjab.

OFFICIALS.

*Principal*.—Miss Annear, B.A.

PROFESSORS.

Annear (Miss), *English*.

M. Das (Miss), *History*.

A. Shah (Miss), *Philosophy*.

S. Lal, *Mathematics*.

M. A. Karim, *Urdu*.

L. B. Das, *Hindi*.

S. C. Bose, *Bengali*.

**CENTRAL TRAINING COLLEGE**, Lahore, Punjab. (1881.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 200.

OFFICIALS.

*Principal*.—H. T. Knowlton, I.E.S.

*Vice-Principal*.—J. E. Parkinson, M.A., I.E.S.

13 Masters.

**DAYANAND ANGLO-VEDIC COLLEGE**, Lahore, Punjab. (1886.)

Affiliated to the University of the Punjab, Lahore.

OFFICIALS.

*Principal*.—Lala Sain Das, M.A., B.Sc.

*Librarian*.—S. Bishen Singh.

*Head Clerk*.—K. Chand.

PROFESSORS.

**Professors :**

L. S. Das, *Chemistry*.

I. S. R. Janiwala, *Philosophy*.

Mahajat Sahai

Gowardhen Lah Dutt, *Physics*.

L. H. N. Das, *Biology*.

K. C. Nag, *Economics*.

S. K. Dutt, *History*.

L. A. Nath Bali, *History*.

Pandit G. Rai, *Sanskrit*.

Pandit B. Dutt, *Theology*.

Maulvi M. Bakhsh, *Persian*.

L. D. Dayal, *Mathematics*.

**Professors—Continued :**

S. C. Bhattacharya, *English*.

**Assistant Professors :**

S. C. Gangali, *English*.

L. M. G. Singh „

M. N. Zutshi „

L. B. D. Bahl „

Amalak Rau Sawhny, *English*.

Babu K. M. Ghosh, *Mathematics*.

L. H. Chand, *Mathematics*.

L. M. Chand, *Chemistry*.

Pt. R. Ram, *Sanskrit*.



**THE ISLAMIA COLLEGE**, Railway Road, Lahore. (1892.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 500.

OFFICIALS.

*Principal*.—Henry Martin, M.A.

PROFESSORS.

H. Martin, *English*.  
P. E. Richards, "  
Sh. M. A. Ghani, *English*.  
G. R. Shauq, "  
M. H. Ali, *Mathematics*.  
D. Muhammad, "  
M. B. Ahmad, *History*.  
S. A. Qadir, "

A. Hamid, *Philosophy*.  
C. Din, *Physics*.  
K. Rai, *Biology*.  
M. Din, *Chemistry*.  
Maulvi A. Ali, *Arabic and Theology*.  
Maulvi A. Ali, "  
Maulvi M. U. Khan, *Persian*. "

**Post-Graduate Courses**.—Leading to M.A. in Arabic, M.A. in Persian.

**Library**.—A College Library of about 5,000 volumes.

**DYAL SINGH COLLEGE**, Lahore, Punjab. (1910.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 600.

OFFICIALS.

*Principal*.—S. C. Roy, M.A.

PROFESSORS.

S. C. Roy, *Philosophy and Religion*.  
A. N. Bhasin, "  
Hem Raj, *Mathematics*.  
Mul Raj, "  
A. C. Rakshit, *English and History*.  
B. Singh, *English*.  
P. C. Sen, "  
S. R. Grover, "

I. C. Nanda, *English*.  
B. L. Anand, "  
C. Lal, *History and Economics*.  
K. M. Maitra, *Persian*.  
V. N. Sahai, *Sanskrit*.  
M. Lal, *Physics*.  
G. Singh, *Chemistry*.  
G. R. Kohly, *Biology*.

**SANATAN DHARAM COLLEGE**, Lahore, Punjab. (1916.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 240.

OFFICIALS.

*Principal*.—Raghubar Dayal Shastri, M.A., M.O.L.

*Vice-Principal*.—Gulshan Rai, B.A., M.B.

PROFESSORS.

R. D. Shastri, *Sanskrit*.  
P. N. Muliek, *English*.  
S. D. Midha, "  
R. N. Kalyan, "  
B. Narain, *Economics and History*.  
Pandit G. Datta, *Sanskrit*.

P. L. Mathur, *Philosophy*.  
G. Rai, *History*.  
A. N. Ganguly, *Mathematics*.  
R. Das, "  
M. Khan-ud-din, *Persian*.

**LAMPETER.**

**S. DAVID'S COLLEGE**, Lampeter. (1822.)

Students who have received three years at S. David's College and have obtained Honours in the Final Examination of the Degree Course, are received as affiliated students at Oxford and Cambridge, where they are allowed to graduate after two years' residence only.

*Terms* : Three per year.

*Students* : 110.

## OFFICIALS.

*Visitor.*—The Rt. Rev. the Lord Bishop of S. Davids.

*Principal.*—Rev. G. C. Joyce, D.D.

*Bursar.*—A. W. Scott, M.A.

## Degrees conferred :

*Degrees.*

*Hoods.*

B.D. - - Black silk, lined with puce, and edged with white silk.

B.A. - - Black, lined with white fur with black spots.

## PROFESSORS.

Rev. G. C. Joyce, *Theology and Greek.*

A. W. Scott, *Science.*

Rev. G. W. Wade, *Latin.*

H. Walker, *English and Philosophy.*

Rev. E. Tyrrell-Green, *Hebrew and Theology.*

Rev. R. H. Richards, *Welsh.*

Rev. W. H. Harris, *Lecturer in Theology.*

**Post-Graduate Courses.**—Those who have taken the B.A. degree at S. David's College can proceed to the B.D. degree, on condition that they reside for a 10th term, and pass the requisite examination, provided that they have been in Holy Orders for a period not less than five years.

**Library.**—College Library. *Librarian* : Rev. G. W. Wade, D.D.

## LARAMIE (Wyoming).

**THE UNIVERSITY OF WYOMING**, Laramie, Wyoming. (1886.)

*Terms* : Three terms and Summer School.

*Students* : 646.

*Budget* : \$343,152.40.

## OFFICIALS.

*President of Board of Trustees.*—A. B. Hamilton, M.D.

*Vice-President of the Board of Trustees.*—W. C. Deming, B.C., M.A.

*Treasurer.*—C. D. Spalding.

*Secretary.*—F. S. Burrage.

*President of University.*—Aven Nelson, Ph.D.

*Dean of the College of Liberal Arts.*—Justus F. Soule, M.A.

*Dean of College of Agriculture.*—A. D. Faville, M.S.

*Dean of College of Education.*—Julian E. Butterworth, Ph.D.

**Degrees conferred.**—B.A. (College of Liberal Arts), B.S. (College of Agriculture), B.S. (College of Engineering), B.A. (College of Education), B.Mus. (Division of Music), M.A., M.S.

## PROFESSORS.

## COLLEGE OF LIBERAL ARTS.

## Professors :

H. C. Dale, *Political Science.*

B. C. Daly, *Military Science and Tactics.*

J. E. Downey, *Philosophy and Psychology.*

G. R. Hebard (Miss), *Political Economy.*

E. D. Hunton, *Commerce.*

E. K. Kline, *Modern Languages.*

H. D. Nasmyth, *Voice.*

R. B. Pease, *English.*

J. F. Soule, *Latin and Greek.*

L. A. White (Miss), *History.*

## Associate Professors :

R. E. Berry, *Commerce.*

C. F. McIntyre (Miss), *English.*

## Assistant Professors :

A. C. Cross, *History.*

R. L. Ruegnitz (Miss), *Music.*

G. E. Ryan (Miss), *Teaching of English.*

## COLLEGE OF ENGINEERING.

## Professors :

A. E. Bellis, *Physics.*

A. C. Boyle, jr., *Mining Engineering.*

J. C. Fitterer, *Civil Engineering and Irrigation.*

J. A. Hill, *Textile Industry.*

E. G. Hoefer, *Mechanical and Electrical Engineering.*

S. H. Knight, *Geology and Curator of Museum.*

P. T. Miller, *Chemistry.*

R. B. Moudy, *Chemistry.*

**Professors—Continued :**

C. B. Ridgaway, *Mathematics*.  
C. E. Stromquist, *Mathematics*.

**Associate Professor :**

K. T. Steik, *Chemistry*.

**Assistant Professor :**

W. A. Hitchcock, *Civil Engineering*.

**COLLEGE OF AGRICULTURE.**
**Professors :**

L. R. Davies, *Teacher Training for Vocational Agriculture*.  
A. D. Faville, *Animal Husbandry*.  
E. H. Lehnert, *Veterinary Science*.  
J. W. Scott, *Zoology and Parasitology*.

**Associate Professor :**

A. E. Vass, *Agronomy*.

**Post-Graduate Courses.**—The University of Wyoming offers a limited amount of graduate instruction. The graduate work is under the direction and control of the professors in charge of the respective departments, but must be approved by the Committee on Graduate Students.

**Museums.**—The University Museum. *Curator* : S. Howell Knight. The Rocky Mountain Herbarium. The Engineering Museum. The Agricultural Museum.

**Library.**—The University Library. *Librarian* : Miss Reba Davis. *Assistant Librarian* : Miss Doris Greene.

**AFFILIATED INSTITUTIONS.**

Ivinson Memorial Hospital, Laramie, Wyo.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director*—A. D. Faville.

**LA TRAPPE (Two Mountains County).**

**INSTITUT AGRICOLE D'OKA**, La Trappe, Two Mountains Co. (1893.)

*Terms* : Two per year.

*Students* : 130 (Agricultural).

**OFFICIALS.**

*President.*—Right Rev. Dom Pacôme Gaboury, Abbot.

*Dean.*—Rev. Father Jean de la Croix, M.A.

*Assistant Dean.*—Rev. Father Athanase.

*Bursar.*—Rev. Father Humbert.

*Secretary and Librarian.*—Rev. Father Yves.

**Degrees conferred.**—B.S.A. Granted by Laval University at the end of the four years' course.

**PROFESSORS.**

M. I. J. A. Marsan, *Field Husbandry*.  
M. H. Nagant, *Chemistry*.  
Rev. Brot. Liguory (Secretary Quebec Farmers' Experimental Union).  
M. A. Dauth, *Veterinary Science*.  
R. F. Leopold, *Horticulture*.  
M. N. Cossette, *Farm Machinery*.  
M. R. Cossette, *Botany*.

**Assistant Professors :**

E. C. O'Roke, *Zoology and Parasitology*.  
J. P. Poole, *Botany and Horticulture*.  
C. V. Singleton, *Animal Husbandry*.

**COLLEGE OF EDUCATION.**
**Professors :**

R. Adsit (Miss), *Elementary Education*. [tion.  
J. E. Butterworth, *Secondary Education*.  
J. R. Coxen, *Industrial Education*.  
H. L. Eby, *Rural Education*.  
G. Gray (Miss), *Home Economics*.

**Assistant Professors :**

B. Chappell (Miss), *High School Education*.  
E. H. Knight (Mrs.), *Home Economics*.  
19 Instructors.

8 Lecturers.

**Post-Graduate Courses** in Horticulture, Poultry Husbandry, and Bee-keeping.

## LAWRENCE (Kansas).

THE UNIVERSITY OF KANSAS, Lawrence, Kansas. (1864.)

*Terms* : Two semesters and a Summer Session of 10 weeks.*Students* : 3,916.*Budget* : The University owns equipment, buildings, and grounds of an estimated value of \$2,000,000. It receives in normal years about \$70,000 annually from fees and \$7,200 from the land fund. For the biennium of 1917-19 the state appropriated \$1,523,000, including \$225,000 for building.

## OFFICIALS.

*Chancellor*.—Frank Strong, Ph.D.*Vice-President*.—W. L. Burdick, Ph.D.*Registrar*.—George O. Foster, A.B.*Dean of the Graduate School*.—Frank W. Blackmar, Ph.D.*Dean of the College of Liberal Arts and Sciences*.—Olin Templin, A.M.*Dean of the School of Engineering*.—Perley F. Walker, M.M.E.*Dean of the School of Law*.—James W. Green, A.M.*Dean of the School of Fine Arts*.—Harold L. Butler, A.B.*Dean of the School of Pharmacy*.—Lucius E. Sayre, Ph.M.*Dean of the School of Medicine*.—Samuel J. Crumbine, M.D.*Dean of the School of Education*.—Frederick J. Kelly, Ph.D.**Degrees conferred**.—A.B., A.M., B.S., B.S. (Eng.), B.S. (Med.), B.S. (Ed.), M.S., M.S. (Ed.), LL.B., Mus. Bac., Ph.D., C.E., M.E., A.E., E.E., B.P.

## PROFESSORS.

## COLLEGE OF LIBERAL ARTS.

**Professors :**A. M. Wilcox, *Greek Language and Literature*.F. W. Blackmar, *Sociology*.C. G. Dunlap, *English Literature*.O. Templin, *Philosophy*.E. M. Hopkins, *Rhetoric and English Language*.F. H. Hodder, *American History and Political Science*.A. T. Walker, *Latin Language and Literature*.E. Galloo, *Romance Languages and Literatures*.J. Naismith, *Physical Education*.E. H. Hollands, *Philosophy*.W. A. McKeever, *Child Welfare*.E. F. Engel, *German*.W. O. Hamilton, *Physical Education*.A. MacMurray, *Public Speaking*.F. R. Hamilton, *University Extension*.E. C. Sprague (Miss), *Home Economics*.H. Olcott, *Physical Education*.R. D. O'Leary, *English*.A. J. Boynton, *Economics*.H. C. Thurnau, *Germanic Languages and Literatures*.D. L. Patterson, *European History*.L. N. Flint, *Journalism*.C. A. Dykstra, *Political Science*.A. L. Owen, *Hispanic Languages*.**Associate Professors :**M. W. Sterling, *Greek*.H. Oliver (Miss), *Latin*.**Associate Professors—Continued :**S. L. Whitecomb, *Comparative Literature*.L. E. Sisson, *Rhetoric*.A. L. Corbin (Miss), *German*.H. O. Kruse, *German*.C. C. Crawford, *European History*.E. W. Murray, *Latin*.W. S. Johnson, *English Literature*.V. E. Helleberg, *Sociology*.E. N. Raymond, *Rhetoric*.M. Lynn (Miss), *English Literature*.E. N. Schwander (Miss), *Romance Languages*.W. W. Davis, *American History*.J. G. Brandt, *Greek*.B. F. Moore, *Political Science*.M. C. Elmer, *Sociology*.W. McG. Duffus, *Economics*.A. L. Goetz (Miss), *Physical Education*.**Assistant Professors :**A. M. Sturtevant, *German*.L. Gardner (Miss), *Rhetoric*.J. M. Burnham (Miss), *English*.F. E. Melvin, *Modern European History*.R. R. Morgan (Miss), *Rhetoric*.A. Stanton (Miss), *Romance Languages*.H. G. Jones (Miss), *German*.L. B. McCarty, *Physical Education*.G. Clark, *Physical Education*.J. Ise, *Economics*.S. O. Rice, *Journalism*.M. Gardner (Miss), *Romance Languages*.

# Assistant Professor—Continued :

- H. M. Clarke (Miss), *Correspondence Study*.  
 G. H. Derry, *Political Science*.  
 M. Ferguson, *Economics and Commerce*.  
 G. C. Loud, *Journalism*.  
 R. G. Mahieu, *Romance Languages*.  
 L. Battey (Miss), *Teaching of English*.  
 H. B. Chubb, *Political Science*.  
 W. W. Sullivan, *History*.  
 E. C. Meguiar (Miss), *Home Economics*.

## COLLEGE OF SCIENCE.

### Professors :

- E. H. S. Bailey, *Chemistry and Metallurgy*.  
 E. Haworth, *Geology and Mineralogy*.  
 W. C. Stevens, *Botany*.  
 S. J. Hunter, *Entomology*.  
 F. E. Kester, *Physics*.  
 H. P. Cady, *Chemistry*.  
 B. M. Allen, *Zoology*.  
 F. B. Dains, *Chemistry*.  
 J. N. Van der Vries, *Mathematics*.  
 C. H. Ashton, *Mathematics*.  
 W. S. Hunter, *Psychology*.  
 C. F. Nelson, *Physiological Chemistry*.

### Associate Professors :

- W. J. Baumgartner, *Zoology*.  
 H. C. Allen, *Chemistry*.  
 U. G. Mitchell, *Mathematics*.  
 F. C. Dockeray, *Psychology*.  
 H. B. Hungerford, *Entomology*.  
 E. B. Stouffer, *Mathematics*.  
 G. W. Stratton, *Chemistry*.  
 R. C. Moore, *Geology and Palaeontology*.  
 P. V. Faragher, *Chemistry*.

### Assistant Professors :

- E. E. Stimpson, *Physics*.  
 J. E. Todd, *Geology and Mineralogy*.  
 C. C. Young, *Chemistry*.  
 H. E. Jordan, *Mathematics*.  
 W. R. B. Robertson, *Zoology*.  
 T. T. Smith, *Physics*.  
 W. S. Long, *Chemistry*.  
 N. Nowlin (Miss), *Zoology*.  
 G. M. Charles (Miss), *Botany*.  
 W. L. Eikenberry, *Teaching of Biological Sciences*.  
 F. W. Bruckmiller, *Chemistry*.  
 J. J. Wheeler, *Mathematics*.  
 S. Lefschetz, *Mathematics*.  
 W. P. Haynes, *Geology, Mineralogy, and Petrology*.  
 D. Alter, *Astronomy*.  
 C. Estes, *Chemistry*.  
 C. H. Watson, *Teaching of Physical Sciences*.  
 M. A. Bills (Miss), *Psychology*.  
 H. Mck. Elsey, *Chemistry*.  
 E. Wertheim, *Chemistry*.  
 C. E. Johnson, *Zoology*.

## SCHOOLS OF MEDICINE AND PHARMACY.

### Professors :

- L. E. Sayre, *Pharmacy and Materia Medica*.  
 I. H. Hyde (Miss), *Physiology*.  
 M. T. Sudler, *Surgery*.  
 L. D. Havenhill, *Pharmacy*.  
 S. J. Crumbine, *Preventive Medicine*.  
 D. C. Guffey, *Obstetrics and Gynecology*.  
 L. S. Milne, *Medicine*.  
 R. H. Major, *Bacteriology and Pathology*.  
 G. E. Coghill, *Anatomy*.  
 O. O. Stoland, *Physiology*.  
 N. P. Sherwood, *Bacteriology*.  
 J. Block, *Genito-Urinary Surgery*.  
 S. S. Glascock, *Psychiatry*.  
 I. J. Wolf, *Internal Medicine*.  
 F. E. Murphy, *Clinical Medicine*.  
 F. L. Uhls, *Psychiatry*.  
 A. L. Skoog, *Neurology*.  
 E. J. Curran, *Ophthalmology*.  
 P. T. Bohan, *Clinical Medicine*.  
 G. M. Gray, *Clinical Surgery*.  
 W. L. McBride, *Dermatology*.  
 R. L. Sutton, *Dermatology*.

### Associate Professors :

- A. E. Hertzler, *Surgery*.  
 F. B. Sherbon (Miss), *Home Nursing*.  
 R. McE. Schauffler, *Orthopedic Surgery*.  
 W. F. Kuhn, *Psychiatry*.  
 W. K. Trimble, *Clinical Pathology*.  
 O. J. Cunningham, *Surgery*.  
 R. D. Irlane, *Obstetrics and Gynecology*.  
 T. D. Tuttle, *Preventive Medicine*.

### Assistant Professors :

- C. M. Sterling, *Pharmacognosy*.  
 G. N. Watson, *Pharmacy*.  
 J. E. Welker, *Physiology*.  
 C. B. Franeiseo, *Orthopedic Surgery*.  
 C. R. Black, *Pathology*.  
 J. G. Hayden, *Surgery*.  
 E. P. Hall, *Otorhinolaryngology*.  
 H. F. Vanorden, *Gynecology and Obstetrics*.  
 C. C. Dennie, *Dermatology*.  
 T. G. Orr, *Surgery*.  
 S. E. Roberts, *Otorhinolaryngology*.

## SCHOOL OF ENGINEERING.

### Professors :

- P. F. Walker, *Industrial Engineering*.  
 G. C. Shaad, *Electrical Engineering*.  
 H. A. Rice, *Mechanics and Structural Engineering*.  
 C. C. Williams, *Railway Engineering*.  
 A. C. Terrill, *Mining and Ore Dressing*.  
 F. H. Sibley, *Mechanical Engineering*.  
 G. J. Hood, *Engineering Drawing*.



**Associate Professors :**

- M. E. Rice, *Physics and Electrical Engineering.*  
 C. A. Haskins, *Sanitary Engineering.*  
 W. C. McNow, *Civil Engineering.*  
 A. H. Sluss, *Mechanical Engineering.*  
 B. L. Wolfe, *Mining.*  
 F. E. Johnson, *Electrical Engineering.*

**Assistant Professors :**

- F. E. Jones, *Pattern Making and Founding.*  
 J. D. Garver, *Mechanical Engineering.*  
 F. L. Brown, *Mechanics.*  
 H. A. Roberts, *Civil Engineering.*  
 J. O. Jones, *Hydraulics.*  
 R. L. Grider, *Mining.*  
 F. M. Veatch, *Sanitary Engineering.*  
 W. A. Burton, *Sanitary Engineering.*

**SCHOOL OF LAW.**

**Professors :**

- J. W. Green, *Law.*  
 W. E. Higgins ,,  
 H. W. Humble ,,  
 E. D. Osborn ,,

**Associate Professor :**

- R. F. Rice, *Law.*

**SCHOOL OF FINE ARTS.**

**Professors :**

- C. A. Preyer, *Piano and Composition.*  
 W. A. Griffith, *Drawing and Painting.*

**Post-Graduate Courses.**—The following departments offer graduate work in the University. In the majority of them the facilities are adequate for thorough preparation for the doctor's degree, and in all of them the facilities are excellent for work leading to the master's degree. All the courses named are well equipped for graduate instruction. Laboratories and libraries are ample for this purpose. Especial opportunity is given for research and original investigation.

Anatomy, Ancient Languages, Bacteriology, Bacteriology and Pathology, Botany, Chemistry, Economics and Commerce, Education, Engineering, Engineering Mechanics, Civil Engineering, Electrical Engineering, Mining Engineering, English Language and Literature, Entomology, Fine Arts, Geology and Mineralogy, Germanic Languages and Literature, Hispanic Languages and Literature, History and Political Science, Home Economics, Journalism, Law, Mathematics, Pharmaceutical and Biological Chemistry, Philosophy and Psychology, Physics and Astronomy, Physiology, Romance Languages and Literatures, Sociology, Zoology.

**Museums.—**

The scientific collections belonging to the University are grouped according to the teaching department in charge.

The botanical collection contains 10,000 identified and labelled specimens.

The entomological collections comprise about 26,000 species and 300,000 specimens.

Geology is represented by extensive collections of specimens in economic, petrographic, and mineralogical groups.

In paleobotany and paleontology the collection is one of the most complete in America.

The zoological collections are rich and varied.

The classical museum contains a collection of casts of Greek and Roman sculpture, facsimile reproductions of objects of art and utility, original coins and photographs.

**Libraries.**—The Libraries of the University contain 125,212 volumes and some 44,000 pamphlets. The periodical room receives 1,185 periodicals and publications

**Professors—Continued :**

- C. S. Skilton, *Organ, Theory of Music and Music History.*  
 G. Goldsmith, *Architecture.*  
 W. B. Downing, *Voice and Public School Music.*  
 H. L. Butler, *Voice.*  
 A. Nevin, *Ensemble and Music Extension.*  
 W. M. Hekking, *Drawing and Painting.*  
 F. E. Kendrie, *Violin and Orchestral Ensemble.*  
 W. V. Cahill, *Drawing and Painting.*

**Assistant Professors :**

- H. Greissing (Miss), *Piano.*  
 A. L. Sweeney (Miss), *Piano.*  
 J. R. Frazier, *Drawing and Painting.*  
 P. Emley-Elliott (Miss) ,,

**SCHOOL OF EDUCATION.**

**Professors :**

- A. S. Olin, *Education.*  
 W. H. Johnson, *Education.*  
 R. A. Schwegler, *Education.*  
 F. J. Kelly, *Education.*  
 R. A. Kent, *Education.*

**Associate Professors :**

- H. W. Nutt, *Education.*  
 R. E. Carter, *Education.*

83 Instructors, 23 Assistant Instructors.

of learned societies, and 121 newspapers published in Kansas. The departments of Germanic Languages, Romance Languages, Latin, English, Education, American and European History, Sociology, and Economics have special reading-rooms in Spooner Library.

Nine Departmental Libraries are housed in the buildings used by their respective departments or schools, each in charge of an assistant librarian.

The Library of the Kansas Academy of Science, in charge of the secretary of the Academy, is housed in Fraser Hall.

## LEEDS.

### THE UNIVERSITY OF LEEDS.

#### *Site:*

Arts: Science, and Technology, College Road, Leeds.

Medicine: School of Medicine, Thoresby Place, Leeds.

Agriculture: Manor Farm, Garforth, near Leeds.

#### *Date of Foundation:*

1831, Foundation of the Leeds School of Medicine.

1874, Foundation of the Yorkshire College of Science.

1877, Foundation of a Faculty of Arts in the Yorkshire College.

1878, Incorporation of the College under the Companies' Acts, with the name "The Yorkshire College."

1884, Union of the Leeds School of Medicine with the Yorkshire College.

1887, Admission of the Yorkshire College as a constituent college of the Victoria University.

1904, Charter of the University of Leeds.

*Terms:* Three per year.

*Students (1917-18):* 758.

#### *Budget (1917-18):*

Income (including Fees, £11,102, and Government and County

Council Grants, £44,550)	..	..	..	..	..	..	..	£69,673
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Expenditure	..	..	..	..	..	..	..	69,167
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Capital Funds, £436,990, of which £316,208 has been spent in land, buildings, and equipment.

### OFFICIALS.

*Chancellor.*—His Grace the Duke of Devonshire, K.G., G.C.M.G., G.C.V.O., LL.D.

*Pro-Chancellor.*—A. Greenhow Lupton, LL.D.

*Vice-Chancellor.*—Sir Michael E. Sadler, K.C.S.I., C.B., LL.D., Litt.D.

*Pro-Vice-Chancellor.*—Prof. Charles M. Gillespie, M.A.

*Treasurer.*—The Hon. Rupert E. Beckett.

*Accountant.*—George R. Breneh.

*Clerk to the Senate.*—Fred T. Baines, B.A.

*Secretary.*—Archibald E. Wheeler.

**Degrees conferred.**—B.A., B.Com., B.Sc., LL.B., M.B., Ch.B., B.Ch.D., M.A., M.Sc., LL.M., M.Ch., M.Ch.D., Ph.D., Litt.D., LL.D., D.Sc., M.D.

**Hoods.**—All hoods are to be of a green shade, combined with black, white, scarlet, or with one another, to produce the variations required for the several degrees, namely:

#### *Degrees.*

#### *Hoods.*

B.A.	-	-	Self-coloured hood of dark green shade.
B.Com.	-	-	Light green hood, lined with dark green.
B.Sc.	-	-	Self-coloured hood of middle green shade.
M.B. and Ch.B.	-	-	Hood of dark green, lined with light green.
LL.B.	-	-	Self-coloured hood of light green shade.
B.Ch.D.	-	-	Hood of dark green, lined with middle green.
M.A.	-	-	Dark green hood, with white lining.
M.Sc.	-	-	Middle green hood, with white lining.
LL.M.	-	-	Light green hood, with white lining.
M.Ch.	-	-	Dark green hood, edged with light green, and lined with white.
M.Ch.D.	-	-	Dark green hood, edged with middle green, and lined with white.

All Bachelors' hoods are to be lined, and all Bachelors' and Masters' hoods are to be of the single or Oxford pattern.

The Doctors' gown is to be of scarlet, with facings and sleeve linings of the shade of green distinctive of his faculty. The hood is to be of scarlet, lined with the distinctive shade or shades of green.

## PROFESSORS.

## FACULTY OF ARTS

(Including Commerce and Laws).

- P. Barbier fils, *French*.  
 B. M. Connal, *Latin*.  
 J. H. Jones, *Economics*.  
 C. M. Gillespie, *Philosophy*.  
 G. S. Gordon, *English Language and Literature*.  
 A. J. Grant, *History*.  
 J. D. I. Hughes, *Law*.  
 W. R. Roberts, *Greek*.  
 J. Strong, *Education*.  
 30 Assistants.

## FACULTY OF SCIENCE.

- J. B. Cohen, *Organic Chemistry*.  
 W. Garstang, *Zoology*.  
 P. F. Kendall, *Geology*.  
 W. P. Milne, *Mathematics*.  
 J. H. Priestley, *Botany*.  
 A. Smithells, *Chemistry*.  
 R. Whiddington, *Physics*.  
 24 Assistants.

## FACULTY OF TECHNOLOGY.

- A. F. Barker, *Textile Industries*.

Post-Graduate Courses by arrangement.

Museums.—There are Museums in connection with most of the Scientific, Technological, and Medical Departments.

## Libraries.—

- Leeds University Library. *Librarian*: R. Offor, M.A.  
 Leeds School of Medicine Library. *Honorary Librarian*: Dr. J. B. Hellicr.  
 Also Departmental Libraries.

## AFFILIATED INSTITUTIONS.

- College of the Resurrection, Mirfield.  
 The Technical College, Huddersfield.  
 Rawdon College, near Leeds.

LEHIGH UNIVERSITY. *See* BETHLEHEM.

LELAND STANFORD JUNIOR UNIVERSITY. *See* STANFORD UNIVERSITY.

## LENNOXVILLE (Quebec).

UNIVERSITY OF BISHOP'S COLLEGE. No particulars received.

## LEXINGTON (Kentucky).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director*—T. P. Cooper.

LICK OBSERVATORY. *See* MOUNT HAMILTON.

## Faculty of Technology—Continued:

- J. W. Cobb, *Fuel Industries with Metallurgy*.  
 J. Goodman, *Engineering*.  
 E. L. Hummel, *Mining*.  
 D. McCandlish, *Leather Industries*.  
 A. G. Perkin, *Colour Chemistry and Dyeing*.  
 R. S. Seton, *Agriculture*.  
 54 Assistants.

## FACULTY OF MEDICINE

(Including Dentistry).

- A. G. Barrs, *Clinical Medicine*.  
 J. S. Bolton, *Mental Diseases*.  
 E. O. Croft, *Obstetrics and Gynecology*.  
 F. W. Eurich, *Forensic Medicine*.  
 T. W. Griffith, *Medicine*.  
 J. K. Jamieson, *Anatomy*.  
 B. G. A. Moynihan, *Clinical Surgery*.  
 H. S. Raper, *Physiology and Biochemistry*.  
 M. J. Stewart, *Pathology and Bacteriology*.  
 23 Assistants, 8 Clinical Lecturers.  
 In the School of Dentistry, 5 Lecturers and 10 Clinical Lecturers.

## LINCOLN (Nebraska).

THE UNIVERSITY OF NEBRASKA, Lincoln, Nebraska. (1869.)

*Terms* : Three per year.*Students* : 5,617.*Budget* : Total resources for the school year 1919-20, \$2,230,390.00.

## OFFICIALS.

*Chancellor*.—S. Avery.*Secretary*.—J. S. Dales.*Provost*.—James T. Lees.*Registrar*.—Florence I. McGahey.*Superintendent of Construction*.—C. E. Chowins.*Executive Dean*.—C. C. Engberg.*Dean of Women*.—Amanda H. Heppner.*Director of University Extension*.—A. A. Reed.

**Degrees conferred**.—B.A., B.S., B.F.A., B.S. in H.E., B.S.A., B.S. in A.E., B.S. in M.E., B.S. in C.E., B.S. in E.E., LL.B., D.M., Ph.G., Ph.C., B.S. in Business, D.D.S., M.A., M.S., Ph.D., M.E., A.E., C.E., E.E., J.D., and occasionally honorary degrees.

## PROFESSORS.

## COLLEGE OF ENGINEERING.

O. V. P. Stout, *Dean*.**Professors :**L. W. Chase, *Agricultural Engineering*.

E. E. Brackett       "       "

O. W. Sjogren       "       "

G. R. Chatburn, *Applied Mechanics*.

P. K. Slaymaker       "       "

O. V. P. Stout, *Civil Engineering*.L. W. Chase, *Mechanical Engineering*.W. L. De Banfre, *Mechanical Engineering*.O. J. Ferguson, *Electrical Engineering*.**Associate Professors :**A. A. Baer, *Agricultural Engineering*.

C. W. Smith       "       "

I. D. Wood       "       "

C. E. Mickey, *Applied Mechanics*.J. W. Haney, *Mechanical Engineering*.V. L. Hollister, *Electrical Engineering*.**Assistant Professors :**R. Carpenter, *Agricultural Engineering*.A. A. Luebs, *Mechanical Engineering*.E. O. Edison, *Electrical Engineering*.A. E. Bunting, *Mechanical Engineering*.

5 Instructors.

## COLLEGE OF BUSINESS ADMINISTRATION.

J. E. Le Rossignol, *Dean*.**Professors :**

J. E. Le Rossignol.   G. O. Virtue.

O. R. Martin.

**Associate Professors :**

J. E. Kirshman.   P. W. Ivey.

**Assistant Professors :**

T. T. Bullock.   D. F. Cole.

M. England (Miss).

## COLLEGE OF DENTISTRY.

W. C. Davis, *Dean*.**Professors :**G. A. Grubb, *Dental Science and Literature*.J. I. Davis, *Prosthetic Dentistry*.**Associate Professor :**P. R. James, *Operative and Clinical Dentistry*.**Assistant Professors :**C. A. Nelson, *Operative and Clinical Dentistry*.B. C. Wildman, *Prosthetic Dentistry*.C. E. Brown, *Orthodontia*.

15 Instructors.

## COLLEGE OF PHARMACY.

R. A. Lyman, *Dean*.**Professor :**

R. A. Lyman.

**Assistant Professor :**

E. Day (Miss).

## COLLEGE OF LAW.

W. G. Hastings, *Dean*.**Professors :**

W. G. Hastings.   E. Maxey.

C. A. Robbins.

**Assistant Professors :**

J. H. Broady.   G. N. Foster.

J. J. Ledwith.   R. P. Wilson.

## COLLEGE OF MEDICINE.

I. S. Cutter, *Dean*.**Professors :**C. W. M. Poynter, *Anatomy*.W. A. Willard, *Anatomy*.A. Schalek, *Dermatology and Syphilology*.

**Professors—Continued :**

C. W. Pollard, *Gynecology and Obstetrics.*  
 W. O. Bridges, *Internal Medicine.*  
 W. F. Milroy       "       "  
 L. Crummer       "       "  
 F. S. Owen, *Laryngology and Rhinology.*  
 C. A. Young, *Nervous and Mental Diseases.*  
 H. Gifford, *Ophthalmology and Otology.*  
 J. P. Lord, *Orthopedic Surgery.*  
 H. M. McClanahan, *Pediatrics.*  
 H. E. Eggers, *Pathology and Bacteriology.*  
 A. F. Jonas, *Surgery.*  
 B. B. Davis       "       "  
 A. W. Peters, *Bio-Chemistry.*  
 A. E. Guenther, *Physiology.*  
 M. I. Smith, *Pharmacology.*

**Associate Professor :**

A. C. Stokes, *Surgery.*

**Assistant Professors :**

R. W. Bliss, *Internal Medicine.*  
 J. M. Bannister, *Internal Medicine.*  
 E. L. Bridges, *Internal Medicine.*  
 J. M. Patton, *Ophthalmology and Otology.*  
 B. W. Christie, *Pediatrics.*  
 A. A. Johnson, *Pathology and Bacteriology.*  
 J. T. Meyers, *Pathology and Bacteriology.*  
 E. T. Manning, *Pathology and Bacteriology.*  
 C. C. Morrison, *Surgery.*  
 R. R. Hollister       "  
 J. S. Goetz, *Therapeutics.*  
 C. R. Kennedy, *Urology.*  
 21 Instructors.

**COLLEGE OF AGRICULTURE.**

E. A. Burnett, *Dean.*

**Professors :**

H. E. Bradford, *Agricultural Education.*  
 W. H. Brokaw, *Agricultural Extension.*  
 R. F. Holland       "       "  
 L. E. Frisbie       "       "  
 L. T. Skinner       "       "  
 B. C. Danley       "       "  
 K. F. Warner       "       "  
 D. H. Propps       "       "  
 I. D. Wood       "       "  
 E. H. Hoppert       "       "  
 H. O. Werner       "       "  
 H. M. Wells       "       "  
 P. K. Whelpton       "       "  
 W. W. Burr, *Agronomy.*  
 F. D. Keim       "       "  
 T. A. Kiesselbach, *Agronomy.*  
 H. J. Gramlich, *Animal Husbandry.*  
 F. E. Mussehl, *Poultry*       "  
 L. Van Es, *Animal Pathology.*  
 J. H. Gain       "       "  
 H. M. Martin       "       "

**Professors—Continued :**

J. H. Frandsen, *Dairy Husbandry.*  
 L. Bruner, *Entomology.*  
 M. H. Swenk, *Entomology.*  
 R. F. Howard, *Horticulture.*  
 E. M. Wileox, *Plant Pathology and Physiology.*  
 H. C. Filley, *Rural Economics.*  
 J. O. Rankin       "       "

**Associate Professors :**

C. A. Lewis, *Agricultural Extension.*  
 J. L. Gilmore       "       "  
 H. J. Young       "       "  
 G. A. Reed       "       "  
 J. F. Lawrence       "       "  
 — Gaines       "       "  
 M. Rokahr (Miss)       "       "  
 F. Dunn (Miss)       "       "  
 M. E. Brown (Miss)       "       "  
 C. D. Kinsman       "       "  
 C. E. Mielke       "       "  
 G. R. Davis       "       "  
 E. Ord (Miss)       "       "  
 — McMurtry       "       "  
 E. Gollmar (Miss)       "       "  
 E. Greene (Miss)       "       "  
 R. W. Carpenter       "       "  
 F. L. Taylor       "       "  
 P. L. Gaddis, *Agronomy.*  
 W. J. Loeffel, *Animal Husbandry.*  
 J. W. Harris (Miss), *Home Economics.*  
 G. W. Hood, *Horticulture.*  
 E. H. Hoppert, *Horticulture.*

**Assistant Professors :**

T. H. Godding, *Agronomy.*  
 J. C. Russel       "       "  
 E. R. Davis       "       "  
 E. L. Jenkins, *Animal Husbandry.*  
 H. B. Pier       "       "  
 K. F. Warner       "       "  
 E. H. Krause, *Dairy Husbandry.*  
 B. H. Thompson       "       "  
 R. W. Dawson, *Entomology.*  
 C. E. Mielke       "       "  
 E. Anderson (Miss), *Plant Pathology and Physiology.*  
 C. H. Heard, *Rural Economics.*  
 A. W. Medlar       "       "  
 E. L. Rhoades       "       "  
 10 Instructors.

**COLLEGE OF ARTS AND SCIENCES.**

P. M. Buck, *Dean.*

**TEACHERS' COLLEGE.**

C. Fordyce, *Dean.*

**Professors :**

H. W. Caldwell, *American History.*  
 G. D. Swezey, *Astronomy.*  
 G. A. Loveland       "  
 H. H. Waite, *Bacteriology.*  
 R. J. Pool, *Botany.*  
 J. E. Weaver, *Botany.*



**Professors—Continued :**

F. W. Upson, *Chemistry*.  
 H. G. Deming, "  
 C. Fordyce, *Education*.  
 H. Brownell, "  
 A. A. Reed, "  
 C. W. Taylor, "  
 Lida B. Earhart, *Elementary Education*.  
 G. Jones, *English History*.  
 L. W. Sherman, *English*.  
 F. A. Stuff, "  
 L. Pound (Miss), "  
 F. M. Fling, *European History*.  
 W. F. Dann, *Art History and Criticism*.  
 P. H. Grumann, *Fine Arts*.  
 N. A. Bengtson, *Geography*.  
 E. H. Barbour, *Geology*.  
 E. F. Schramm, "  
 L. Fossler, *Modern Languages*.  
 J. Warshaw, " "  
 H. H. Vaughan, " "  
 J. T. Lees, *Ancient Languages*.  
 A. L. Candy, *Mathematics*.  
 W. C. Brenke, "  
 C. C. Engberg, "  
 W. F. Morrison, *Military Science*.  
 H. B. Alexander, *Philosophy and Psychology*.  
 W. Hyde (Miss), *Philosophy and Psychology*.  
 R. C. Bentley, *Philosophy*.  
 R. G. Clapp, *Physical Education*.  
 J. E. Almy, *Physics*.  
 B. E. Moore, "  
*Physiology* (see College of Pharmacy).  
 G. E. Howard, *Political Science and Sociology*.  
 L. E. Aylsworth, *Political Science and Sociology*.  
 H. Webster, *Political Science and Sociology*.

**Graduate College.**—Dean : L. A. Sherman. Provides courses in nearly all the University Departments.

**Museum.**—Geological Museum. Curator : E. H. Barbour.

**Libraries.**—The University Library. Librarian : Malcolm G. Wyer. Assistant Librarian : Nellie J. Compton. Departmental Libraries.

**Professors—Continued :**

H. Williams, *Political Science and P. M. Buck, English*. [Sociology].  
 M. M. Fogg, "  
 P. H. Frye, "  
 S. B. Gass, "  
 G. E. Barber, *Ancient Languages*.  
 C. Conklin (Miss), *Modern Languages*.  
 R. H. Wolecott, *Zoology*.  
 F. D. Barker, "  
 D. D. Whitney, "

**Associate Professors :**

J. A. Rice, *Ancient Languages*.  
 E. Walker, *Botany*.  
 L. Walker, "  
 D. J. Brown, *Chemistry*.  
 J. W. Calvin, "  
 R. D. Scott, *English*.  
 L. Pfeiffer (Miss), *European History*.  
 A. Howell (Miss), *Fine Arts*.  
 E. Webster (Miss), *Geology*.  
 M. G. Gaba, *Mathematics*.  
 A. Clapp (Mrs.), *Physical Education*.  
 J. P. Senning, *Political Science and Sociology*.  
 E. Reese (Miss), *Modern Languages*.  
 F. W. Sanford, *Ancient Languages*.

**Assistant Professors :**

T. J. Fitzpatrick, *Botany*.  
 C. J. Frankforter, *Chemistry*.  
 B. C. Hendricks, "  
 R. E. Cochran, *American History*.  
 B. C. Grant, *Fine Arts*.  
 L. Mundy (Miss), *Fine Arts*.  
 C. Barbour (Miss), *Geology*.  
 A. Babbitt, *Mathematics*.  
 L. Runge (Miss), "  
 M. McPhee (Miss), *Rhetoric*.  
 M. Weseen, *Rhetoric*.  
 J. E. A. Alexis, *Modern Languages*.  
 22 Instructors.

**LIVERPOOL.**

**LIVERPOOL UNIVERSITY**, Brownlow Hill. (1881.)

*Terms* : Three per year.

*Students* : 2,237.

*Budget* :

The assets of the University are now valued at upwards of £1,113,327, and the annual income is over £80,000.

The expenditure for Session 1917-18 amounted to £85,093 8s. 9d.

**OFFICERS AND OFFICIALS.**

*Chancellor.*—The Right Hon. the Earl of Derby, K.G., G.C.V.O., LL.D.

*Vice-Chancellor.*—Col. J. G. Adami, C.B.E., M.A., F.R.S.

*Registrar.*—Edward Carey, LL.B.

*Librarian.*—John Sampson, M.A., D.Litt.

Degrees conferred :

Degrees.	Hoods.
B.A. and B.Com. Sc.	Black cloth, lined with apple-blossom silk, the colour of the Faculty, and bordered with white fur.
B.Arch.	Black cloth, lined with white silk, edged with two narrow lines of black velvet, and bordered with white fur.
M.A.	Black silk or cloth, lined with apple-blossom silk.
Litt.D.	Scarlet cloth, lined with apple-blossom silk.
B.Sc.	Black cloth, lined with slate-blue silk, the colour of the Faculty, and bordered with white fur.
M.Sc.	Black silk or cloth, lined with slate-blue silk.
D.Sc.	Scarlet cloth, lined with slate-blue silk.
M.B. and Ch.B.	Black cloth, lined with lavender silk, the colour of the Faculty, and bordered with white fur.
Ch.M. and M. H.	Black silk or cloth, lined with lavender silk.
M.D.	Scarlet cloth, lined with lavender silk.
B.D.S.	Black cloth, lined with dark red silk, and bordered with white fur.
M.D.S.	Black silk or cloth, lined with dark red silk.
B.V.Sc.	Black cloth, lined with grey silk, and bordered with white fur.
M.V.Sc.	Black cloth, lined with grey silk.
D.V.Sc.	Scarlet cloth, lined with grey silk.
LL.B.	Black cloth, lined with bronze silk, the colour of the Faculty, and bordered with white fur.
LL.M.	Black silk or cloth, lined with bronze silk.
LL.D.	Scarlet cloth, lined with bronze silk.
B. Eng.	Black cloth, lined with orange silk, the colour of the Faculty, and bordered with white fur.
M.Eng.	Black silk or cloth, lined with orange silk.
D.Eng.	Scarlet cloth, lined with orange silk.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- L. P. Abercrombie, *Civic Design*.
- R. C. Bosanquet, *Classical Archeology*.
- A. B. Boswell, *Russian*.
- E. T. Campagnac, *Education*.
- F. S. Carey, *Mathematics*.
- R. H. Case, *English Literature*.
- W. E. Collinson, *German*.
- O. Elton, *English Literature*.
- Sir J. G. Frazer, *Social Anthropology*.
- J. Garstang, *Methods and Practice of Archeology*.
- E. C. K. Gonner, *Economics*.
- W. R. Halliday, *Ancient History*.
- A. Mair, *Philosophy*.
- (Vacant), *Egyptology*.
- J. P. Postgate, *Latin*.
- C. H. Reilly, *Architecture*.
- P. M. Roxby, *Geography*.
- A. C. Pearson, *Greek*.
- C. K. Webster, *Modern History*.
- H. C. K. Wyld, *English Language*.
- W. H. Young, *Philosophy and History of Mathematics*.

Lecturers :

- H. A. Ormerod, *Greek*.
- M. T. Smiley, *Latin*.
- G. E. Renault, *French*.
- P. Rébora, *Italian*. (Sen.)

Lecturers—Continued :

- J. Glyn Davies, *Celtic*. (Senior Lecturer in Welsh.)
- L. Abercrombie, *Poetry*.
- G. W. Coopland, *Medieval History*.
- W. G. Jones, *History*.
- G. S. Veitch, *Modern History*.
- J. A. Twemlow, *Paleography and Diplomatics*.
- J. Montgomery, *Commercial Theory and Practice*.
- R. A. Macdonald, *Economics*.
- M. H. L. Davies (Miss), *Methods and Practice of Social Work*.
- E. Rathbone (Miss), *Local Government*.
- G. C. Field, *Philosophy*.
- F. A. Colle (Miss), *Education*.
- L. B. Budden, *Architecture*.
- T. H. Mawson, *Landscape Design*.
- H. C. Dowdall, *Civic Law*.
- S. Proudman, *Applied Mathematics and Mathematical Hydrography*.
- A. Boole-Stott (Hon.), *Mathematics*.
- A. W. Pollitt, *Music*.
- 11 Assistant Lecturers.

FACULTY OF SCIENCE.

Professors :

- E. C. C. Baly, *Inorganic Chemistry*.
- J. M. Beattie, *Bacteriology*.
- P. G. H. Boswell, *Geology*.

**Professors—Continued :**

- L. Doncaster, *Zoology*.  
R. J. Harvey-Gibson, *Botany*.  
W. A. Herdman, *Oceanography*.  
W. C. McCullagh Lewis, *Physical Chemistry*.  
R. Newstead, *Entomology*.  
R. Ramsden, *Bio-Chemistry*.  
R. Robinson, *Organic Chemistry*.  
L. R. Wilberforce, *Physics*.

**Lecturers :**

- J. Rice, *Physics*.  
J. Smeath Thomas, *Analytical Chemistry*.  
A. Holt, *Physical Chemistry*.  
F. W. Kay, *Applied Organic Chemistry*.  
E. G. Jones, *Public Health Chemistry*.  
R. C. Bamber (Miss), *Zoology*.  
S. T. Burfield                    "  
M. Baldwin (Miss)               "  
J. Johnstone, *Oceanography*.  
J. T. Jenkins, *Sea Fisheries*. (Hon.)  
A. Scott, *Economic Ichthyology*.  
H. C. Chadwick, *Marine Biology*.  
W. H. Roberts, *Public Health Chemistry*.  
12 Assistant Lecturers.

**FACULTY OF MEDICINE.**
**Professors :**

- J. H. Abram, *Therapeutics*.  
H. Briggs, *Midwifery*.  
R. J. McL. Buchanan, *Forensic Medicine*.  
E. E. Glynn, *Pathology*. [cine.  
T. R. Glynn, *Medicine*.  
E. W. Hope, *Hygiene*.  
J. S. Macdonald, *Physiology*.  
R. Parker, *Surgery*.  
J. W. W. Stephens, *Tropical Medicine*.  
W. T. Thomas, *Regional Surgery*.  
W. Yorke, *Parasitology*.

**Lecturers :**

- D. Douglas-Crawford, *Surgical and Applied Anatomy*.  
W. H. Broad, *Physical Anthropology*.  
F. A. Duffield, *Physiology*.  
Sir R. Jones, *Orthopedic Surgery*.  
R. E. Kelly, *Practical Surgery*.  
K. W. Monsarrat, *Operative Surgery*.  
J. E. W. MacFall, *Forsenic Medicine, Toxicology*.  
A. A. Mussen, *Hygiene, Practical Sanitation*.  
W. Hanna, *Public Health Administration*.  
T. H. Bickerton, *Ophthalmology*.  
T. P. Cowen, *Mental Diseases*.  
P. Davidson, *Diseases of Children*.  
J. H. Abram, *Clinical Medicine*.  
J. M. Bligh                        "  
R. J. M. Buchanan, *Clinical Medicine*.  
A. G. Gullan                    "  
J. Hay                            "  
C. J. Macalister                "

**Lecturers—Continued :**

- J. Owen, *Clinical Medicine*.  
J. L. Roberts                    "  
R. A. Bickersteth, *Clinical Surgery*.  
D. D. Crawford                "  
A. J. Evans                     "  
Sir R. Jones                    "  
T. C. L. Jones                  "  
F. C. Larkin                    "  
K. W. Monsarrat                "  
G. P. Newbolt                  "  
G. C. E. Simpson                "  
W. T. Thomas                  "  
W. B. Bell, *Gynecology*.  
C. Rundle, *Infectious Diseases*.  
W. Hanna, *Vaccination*.  
P. H. Marsden, *Materia Medica and Pharmacy*.  
F. P. Wilson, *Specific Diseases*.  
H. Leslie-Roberts, *Dermatology*.  
W. Permewan, *Laryngology*.  
3 Assistant Lecturers.

**FACULTY OF ENGINEERING.**
**Professors :**

- T. B. Abell, *Naval Architecture*.  
E. W. Marchant, *Applied Electricity*.  
S. W. Perrott, *Civil Engineering*.  
W. H. Watkinson, *Engineering*.

**Assistant Professor :**

- W. Mason, *Strength of Materials*.

**Lecturers :**

- G. E. Scholes, *Engineering*.  
F. J. Teago, *Electrical Engineering*.  
T. R. Wilton, *Dock and Harbour Construction*. [tions.  
E. J. Rimmer, *Contracts and Specifications*.  
W. Anderson, *Engineering Design and Drawing*.  
J. W. Anderson, *Refrigeration*.  
8 Assistant Lecturers.

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**Professors :**

- F. R. Batt, *Commercial Law*.  
W. L. Blease, *Law*.  
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- J. Findlay, *Equity and Jurisprudence*.  
G. W. Coopland, *English Constitutional History*.

**DENTAL SURGERY.**
**Lecturers:**

- J. A. Woods, *Dental Anatomy, Physiology, and Dental Histology*.  
W. H. Gilmour, *Dental Surgery*.  
H. W. P. Bennetto, *Operative Dental Surgery*.  
L. Osborn, *Dental Mechanics*.  
J. S. Thomas, *Dental Metallurgy*.  
P. H. Marsden, *Materia Medica*.  
R. Edwards, *Clinical Dental Surgery*.

# VETERINARY SCIENCE.

## Lecturers :

- S. Jackson, *Stable Management*.  
 H. Sumner, " "  
 F. C. Lewis, *Bacteriological Methods*.  
 P. H. Marsden, *Materia Medica and Pharmacy*.  
 H. Sumner, *Materia Medica and Pharmacy*. [Toxicology.  
 J. E. W. McFall, *Jurisprudence and*

## Lecturers—Continued:

- A. A. Mussen, *Dietetics and Hygiene*.  
 H. Sumner, *Veterinary Medicine*.  
 J. S. Jones, *Veterinary Surgery and Operative Veterinary Surgery*.  
 J. S. Jones, *Meat Inspection*. [Surgery.  
 H. Sumner, *Clinical Medicine and Surgery*. [Surgery.  
 S. Jackson, *Clinical Medicine and Surgery*. [Surgery.  
 T. E. Jones, *Clinical Medicine and*

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 The Royal Infirmary.  
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 Hospital for Women (Shaw Street).  
 Infirmary for Children.  
 Eye and Ear Infirmary.  
 St. Paul's Eye and Ear Hospital.  
 Liverpool Maternity Hospital and Ladies' Charity.  
 St. George's Hospital for Diseases of the Skin.  
 The Dental Hospital.  
 Wigan Infectious Diseases Hospital.  
 City Hospital South (Parkhill Road and Grafton Street).  
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*Lecturers :*

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 A. M. Evans, „ [Sanitation].  
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 B. Blacklock, *Parasitology*.

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*Physician*.—J. W. W. Stephens.

## 3. At the Yellow Fever Research Laboratory of the School, Manaos.

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**Laboratory**.—Pembroke Place, Liverpool.

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B.S.	- - -	Black silk, edged violet silk.
B.Sc.	- - -	Black silk or stuff, lined white, edged gold coloured silk.
B.Sc. (Feon.)	- - -	Same as B.Sc.
B.Sc. (Eng.)	- - -	Ditto.
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D.Lit.	- - -	Scarlet cloth, lined russet-brown silk.
D.Mus.	- - -	Scarlet cloth, lined white, watered silk.
D.Sc.	- - -	Scarlet cloth, lined gold coloured silk.
D.Sc. (Econ.)	- - -	Same as D.Sc.
D.Sc. (Eng.)	- - -	Ditto.
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LL.D.	- - -	Scarlet cloth, lined blue silk.
M.A.	- - -	Black silk, lined russet-brown silk.
M.B. and B.S.	- - -	Black silk, lined white, edged violet silk.
M.D.	- - -	Scarlet cloth, lined violet silk.
M.S.	- - -	Black silk, lined violet silk.
M.Se.	- - -	Black silk, lined gold coloured silk.

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B.Sc. (Hort.)	
M.Sc. (Hort.)	
B.Sc. (Vet.)	
M.Sc. (Vet.)	
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M.Sc. (Econ.)	
B.Com.	} Not yet decided.
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J. A. Platt, M.A., *Greek*.

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## READERS.

- M. Cary, M.A., *Ancient History*.  
 J. K. Fotheringham, M.A., D.Litt., *Ancient History*.  
 J. C. G. Ledingham, C.M.G., D.Sc., M.A., M.B., Ch.B., *Bacteriology*.  
 Otto Rosenheim, Ph.D., *Biochemistry*.  
 R. R. Gates, Ph.D., M.A., B.Sc., F.L.S., *Botany*.  
 Holland Crompton, F.C.S., *Chemistry*.  
 H. R. Le Sueur, D.Sc., „  
 F. G. Pope, D.Sc., „  
 C. K. Tinkler, D.Sc., „  
 (Vacant), *Dutch*.  
 Mrs. Knowles, Litt.D., *Economic History*.  
 Sara Melhuish (Miss), M.A., *Education*.



READERS—*Continued* :

R. W. Chambers, D.Lit., M.A., *English Language and Literature*.  
 A. W. Reed, M.A., *English Language and Literature*.  
 P. G. Thomas, M.A., *English Language and Literature*.  
 K. M. Warren (Miss), *English Language and Literature*.  
 G. H. J. Hurst, M.A., LL.M., *English Law*.  
 H. V. Routh, M.A., *English Literature*.  
 Mary Williams, M.A., *French*.  
 Sir Halford J. Mackinder, M.A., M.P., *Geography*.  
 W. T. Gordon, D.Sc., M.A., F.R.S.E., *Geology*.  
 T. L. Wren, M.A., *Geometry*.  
 H. G. Atkins, D.Lit., M.A., *German*.  
 Wilfrid Perrett, Ph.D., B.A., *German*.  
 Julius Steppat, Ph.D., B.A., *German*.  
 J. J. Guest, M.A., M.I.Mech.E., *Graphics and Structural Engineering*.  
 J. M. MacGregor, M.A., *Greek*.  
 H. Johnstone (Miss), M.A., *History*.  
 C. A. J. Skeel (Miss), D.Lit., *History*.  
 N. H. Baynes, M.A., *History of the Roman Empire*.  
 E. G. Gardner, Litt.D., M.A., *Italian*.  
 Abraham Wolf, D.Lit., M.A., *Logic and Ethics*.  
 C. O. Blagden, M.A., *Malay*.  
 Major Greenwood, junr., L.R.C.P., M.R.C.S., *Medical Statistics*.  
 Sir Napier Shaw, Sc.D., D.Sc., LL.D., M.A., F.R.S., *Meteorology*.  
 E. S. Salmon, *Mycology*.  
 (Vacant), *Organic Chemistry*.

Hubert Hall, F.S.A., *Paleography and Economic History*.  
 William Hunter, C.B., M.D., C.M., F.R.C.P., M.R.C.S., F.R.S.E., *Pathology*.  
 Fred Ransom, M.D., *Pharmacology*.  
 Daniel Jones, M.A., *Phonetics*.  
 J. F. Spencer, D.Sc., Ph.D., *Physical Chemistry*.  
 J. A. Gardner, M.A., F.I.C., F.C.S., *Physiological Chemistry*.  
 W. C. Cullis (Miss), D.Sc., *Physiology*.  
 J. S. Edkins, Sc.D., M.A., M.B., *Physiology*.  
 F. S. Locke, M.D., M.A., *Physiology*.  
 M. S. Pembrey, M.D., B.Ch., M.A., *Physiology*.  
 H. E. Roaf, D.Sc., M.D., L.R.C.P., M.R.C.S., *Physiology*.  
 T. G. Hill, A.R.C.S., F.L.S., *Plant Physiology*.  
 William Brown, D.Sc., M.D., B.Ch., M.A., *Psychology*.  
 B. Edgell (Miss), Ph.D., M.A., *Psychology*.  
 M. T. M. Ormsby, A.R.C.S., M.Inst.-C.E.I., *Surveying*.  
 A. Werner (Miss), L.L.A., *Swahili and the Bantu Languages*.  
 A. W. Porter, D.Sc., F.R.S., *Thermodynamics*.  
 F. W. Thomas, Ph.D., M.A., *Tibetan Language*.  
 G. H. Wooldridge, F.R.C.V.S., *Veterinary Hygiene*.  
 H. W. M. Tims, O.B.E., M.D., Ch.M., M.A., F.L.S., F.Z.S., *Zoology*.

*Director of School of Librarianship (University College)*.—E. A. Baker, D.Lit., M.A.

There are also a number of other Teachers organized under two categories, viz.: (1) "Appointed Teachers,"—i.e., such as have been appointed by the University with that express designation; (2) "Recognized Teachers,"—i.e., such as have been appointed either by the University itself or by one of its "Schools," or by one of the other Institutions at which instruction is given under its auspices, and have been recognized by the Senate as conducting work of University standard.

*Dean of the Faculty of Arts*.—Sir Sidney Lee, D.Litt., Litt.D., LL.D., F.B.A.  
 Appointed Teachers, 46; Recognized Teachers, 170.

*Dean of the Faculty of Science*.—A. N. Whitehead, Sc.D., M.A., F.R.S.  
 Appointed Teachers, 47; Recognized Teachers, 207.

*Dean of the Faculty of Medicine*.—Sir Bertrand E. Dawson, G.C.V.O., K.C.M.G., C.B., M.D., B.Sc., F.R.C.P., M.R.C.S.  
 Appointed Teachers, 15; Recognized Teachers, 328.

*Dean of the Faculty of Engineering*.—H. C. H. Carpenter, Ph.D., M.A., A.R.S.M., M.I.M.M., F.R.S.  
 Appointed Teachers, 12; Recognized Teachers, 67.

*Dean of the Faculty of Theology*.—Rev. P. Taylor Forsyth, M.A., D.D.  
 Appointed Teachers, 0; Recognized Teachers, 19.

*Dean of the Faculty of Economics*.—The Hon. W. Pember Reeves, Ph.D.  
 Appointed Teachers, 13; Recognized Teachers, 13.



*Dean of the Faculty of Laws.*—H. J. Hay Mackay, M.A., LL.B.

Appointed Teachers, 3; Recognized Teachers, 14.

*Dean of the Faculty of Music.*—Sir W. Parratt, C.V.O., Mus.Doc., M.A.

Appointed Teacher, 1; Recognized Teachers, 21.

**Post-Graduate Courses.**—See particulars under the various constituent Colleges.

**Library.**—100,000 volumes.

## I.—THE UNIVERSITY.

On January 1, 1907, University College, which was by the Statutes of 1900 made a "School of the University" (see II. below) in the Faculties of Arts, Laws, Medicine, Science, Engineering, and Economics, was transferred to the University, of which it now forms an integral part. Matriculated Students working at the College in any of these Faculties are "Internal Students of the University."

On January 1, 1910, King's College, which was by the Statutes of 1900 made a "School of the University" (see II. below) in the Faculties of Theology, Arts, Laws, Medicine, Science, Engineering, and Economics, was, in respect of all its Departments, except that of Theology, transferred to the University, of which it now forms an integral part, but is divided into two separate institutions, viz.: (a) "King's College" (in the Faculties of Arts, Laws, Medicine, Science, Engineering, and Economics), and (b) "King's College for Women" (in the Faculties of Arts and Science). Matriculated Students working at these institutions in any of the faculties respectively indicated are "Internal Students of the University." The Theological Department of the College remains a "School of the University" in the Faculty of Theology (see II. below).

Other Institutions maintained by the University are the Brown Animal Sanatory Institution in Wandsworth Road, the Physiological Laboratory in the University buildings at South Kensington, Goldsmiths' College at New Cross, the Francis Galton Laboratory for National Eugenics at University College, and the Ratan Tata Department of Social Science and Administration at the London School of Economics and Political Science.

## II.—SCHOOLS OF THE UNIVERSITY.

The following is a list of the Schools of the University in the Statutory Order of the Faculties:

### In the Faculty of Theology:

New College, Hampstead.

Hackney College, Hampstead.

Regent's Park College.

King's College (Theological Department).

Wesleyan College, Richmond.

St. John's Hall, Highbury.

### In the Faculty of Arts:

Royal Holloway College.

Bedford College for Women.

East London College.

Westfield College.

London Day Training College (in Pedagogy only).

School of Oriental Studies (for Research in Oriental subjects).

### In the Faculty of Laws:

None.

### In the Faculty of Music:

None.

### In the Faculty of Medicine:

The Schools of Medicines of St. Bartholomew's Hospital, St. Thomas's Hospital

Westminster Hospital, Guy's Hospital, St. George's Hospital, London

Hospital, Middlesex Hospital, Charing Cross Hospital, University College

Hospital, King's College Hospital, and St. Mary's Hospital.

The London (Royal Free Hospital) School of Medicine for Women.

The London School of Tropical Medicine (in Tropical Medicine only).

The Lister Institute of Preventive Medicine (for Research in Hygiene and Pathology).  
 The Royal Army Medical College (for Officers of the Royal Army Medical Corps).  
 The Royal Dental Hospital and London School of Dental Surgery (in Dentistry only).  
 The Naval Medical School of the Royal Naval College, Greenwich (for Officers of the Royal Naval Medical Corps).  
 The National Dental Hospital and College (in Dentistry only).

In the Faculty of Science:

Imperial College of Science and Technology.  
 Royal Holloway College.  
 Bedford College for Women.  
 East London College.  
 South-Eastern Agricultural College, Wye (in Agriculture only).

In the Faculty of Engineering:

Imperial College of Science and Technology.  
 East London College.

In the Faculty of Economics and Political Science:

London School of Economics and Political Science.

### III.—OTHER INSTITUTIONS (*with Recognized Teachers*).

Battersea Polytechnic.	St. John's College, Battersea.
Birkbeck College.	St. Mark's College, Chelsea.
City of London College.	Royal Academy of Music.
Finsbury Technical College.	Royal College of Music.
Jews' College.	Trinity College of Music.
Northampton Polytechnic Institute.	Guildford School of Music.
Northern Polytechnic Institute.	Bethlem Royal Hospital.
Royal Veterinary College.	Brompton Hospital for Consumption and Diseases of the Chest.
Sir John Cass Technical Institute.	Hospital for Sick Children.
South-Western Polytechnic Institute.	National Hospital for the Paralyzed and Epileptic.
West Ham Municipal Technical Institute.	Royal London Ophthalmic Hospital.
Woolwich Polytechnic.	School of Pharmacy of the Pharmaceutical Society of Great Britain.
Maria Grey Training College.	
St. Mary's College.	
Borough Road College, Isleworth.	

### AFFILIATED INSTITUTIONS.

The teaching of the University is organized under three categories: (1) That conducted by the University itself; (2) that conducted by the several "Schools of the University"; (3) that conducted at the other Institutions at which there are "Recognized Teachers of the University."

**UNIVERSITY OF LONDON, UNIVERSITY COLLEGE**, Gower St., W.C. (1826.)

*Terms* : Three a year.

*Students* : 20,218 (1916-19).

*Budget* : The College estimates are approved annually by the University Senate. The estimates for 1918-19 provide for an expenditure of £65,730.

### OFFICERS.

*Chairman*.—The Rt. Hon. Lord Reay, K.T.

*Vice-Chairman*.—J. Bourne Benson, B.A., LL.D.

*Treasurer*.—F. V. Schuster, B.A.

*Acting Treasurer*.—H. Keene.

*Provost*.—Sir Gregory Foster, B.A., Ph.D.

*Secretary*.—Walter W. Seton, M.A., D.Litt.

*Librarian*.—R. W. Chambers, M.A., D.Litt.

*Tutor to Women Students*.—Winifred Smith (Miss), B.Sc.

## PROFESSORS.

FACULTY OF ARTS,  
INCLUDING ARCHITECTURE AND  
FINE ART.

## Professors :

- E. A. Gardner, *Archæology*.  
 A. E. Richardson, *Architecture*.  
 S. D. Adshead                    "  
 P. Geyl, *Dutch*.  
 W. M. Flinders-Petrie, *Egyptology and Coptic*.  
 W. P. Ker, *English*.  
 H. Tonks, *Fine Arts*.  
 J. H. Thomas, *Sculpture*.  
 L. M. Brandin, *French and Romance Philology*.  
 E. J. Garwood, *Geography (Physical)*.  
 L. W. Lyde, *Geography (Economic)*.  
 R. Priebseh, *German and Germanic Philology*.  
 J. G. Robertson, *German*.  
 J. Arthur Platt, *Greek*.  
 H. Gollancz, *Hebrew*.  
 F. C. Montague, *History*.  
 A. F. Pollard                    "  
 A. Cippico, *Italian*.  
 H. E. Butler, *Latin*.  
 L. N. G. Filon, *Mathematics (Applied)*.  
 M. J. M. Hill, *Mathematics (Pure)*.  
 G. D. Hicks, *Philosophy and Psychology*.  
 C. Spearman                    "  
 H. S. Foxwell, *Political Economy*.

## FACULTY OF LAWS.

## Professors :

- Sir J. Macdonell, *Comparative Law*.  
 J. H. Morgan, *Constitutional Law*.  
 A. F. Murison, *Jurisprudence*.  
 (Vacant), *Roman Dutch Law*.

## FACULTY OF SCIENCE.

## Professors :

- F. W. Oliver, *Botany*.  
 J. N. Collie, *Chemistry*.  
 F. G. Donnan                    "  
 K. Pearson, *Applied Statistics and Eugenics*.  
 E. J. Garwood, *Geology*.  
 A. J. Clark, *Pharmacology*.  
 W. H. Bragg, *Physics*.  
 J. P. Hill, *Zoology and Comparative Anatomy*.

## FACULTY OF ENGINEERING.

## Professors :

- E. G. Coker, *Civil and Mechanical Engineering*.  
 J. A. Fleming, *Electrical Engineering*.  
 E. R. Matthews, *Municipal Engineering*.  
 H. R. Kenwood, *Hygiene and Public Health*.

FACULTY OF MEDICAL  
SCIENCES.

## Professors :

- G. Elliot Smith, *Anatomy*.  
 H. R. Kenwood, *Hygiene and Public Health*.  
 A. J. Clark, *Pharmacology*.  
 E. H. Starling, *Physiology*.  
 W. M. Bayliss                    "

## SCHOOL OF LIBRARIANSHIP.

Director—E. A. Baker.

## Assistants:

- A. Esdaile, *Bibliography*.  
 W. R. B. Prideaux, *Cataloguing and Library Routine*.  
 W. C. B. Sayers, *Classification*.  
 H. W. Fovargue, *Public Library Law*.  
 B. M. Headicar, *Library Organization*.  
 R. W. Chambers, *Literary History*.  
 E. A. Baker, *Literary History and Book Selection*.  
 H. Jenkinson, *Paleography and Archives*.

## Readers :

- R. W. Chambers, *English*.  
 M. T. Ormsby, *Surveying*.  
 W. Perrett, *German*.  
 M. Cary, *Ancient History*.  
 N. H. Baynes, *History of the Roman Empire*.  
 E. G. Gardner, *Italian*.  
 G. H. J. Hurst, *English Law*.  
 T. G. Hill, *Plant Physiology*.  
 A. W. Porter, *Thermodynamics*.  
 J. J. Guest, *Graphics and Structural Engineering*.  
 D. Jones, *Phonetics*.  
 F. W. Thomas, *Tibetan*.  
 T. L. Wren, *Geometry*.

## Assistant Professors :

- H. P. Philpot, *Civil and Mechanical Engineering*.  
 W. C. Clinton, *Electrical Engineering*.

## Lecturers :

- H. G. Spearing, *Archæology*.  
 A. Stratton, *Architecture*.  
 T. G. Pinches, *Assyriology*.  
 Sir G. Foster, *English*.  
 T. Borenus, *Fine Arts*.  
 S. Mawson                    "  
 A. T. Porter                    "  
 A. P. Newton, *American and Colonial History*.  
 Lt.-Col. G. P. A. Phillips, *Military Science*.  
 F. W. Thomas, *Comparative Philology*.  
 C. Read, *Psychology*.  
 F. Aveling                    "  
 J. C. Flugel                    "

**Lecturers—Continued :**

J. H. Helweg, *Danish*.  
 I. C. Grøndahl, *Norwegian*.  
 Inn. Björkham, *Swedish*.  
 H. Hirschfeld, *Semitic Epigraphy*.  
 E. J. Salisbury, *Botany*.  
 W. Smith (Miss) „  
 M. C. Stopes, *Paleobotany*.  
 E. N. Thomas (Miss), *Botany*.  
 Irvine Masson, *Chemistry*.  
 Oscar Berdy „

**Lecturers—Continued :**

P. Haas, *Plant Chemistry*.  
 A. H. Barker, *Heating and Ventilating*.  
 H. Deans, *Railway Engineering*.  
 A. T. Walmisley, *Waterways, Harbours, and Docks*.  
 A. G. R. Foulerton, *Hygiene and Public Health*.  
 D. M. S. Watson, *Zoology and Comparative Anatomy*.

**Post-Graduate Courses.**—Facilities for Post-Graduate and Research Work are provided in all Departments.

**Libraries.**—The Libraries contain about 145,000 volumes and upwards of 21,000 pamphlets. *Librarian* : R. W. Chambers.

**Museums.**—The chief Museums in the College are: (1) Anatomy, (2) Egyptology, (3) Zoology and Comparative Anatomy. There is also the Flaxman Gallery and Flaxman Drawing Room containing sculptures and drawings by the sculptor, John Flaxman.

**KING'S COLLEGE, Strand, London, W.C. (1828.)**

*Terms* : Three a year.

*Students* : 1,400.

**OFFICIALS.**

*Principal.*—R. M. Burrows, D.Litt., Ph.D.

*Dean of Theological Dept.*—Rev. W. R. Matthews, M.A., B.D.

*Sub-Dean of Theological Dept.*—Rev. S. C. E. Legg, M.A.

*College Secretary.*—S. T. Shovelton, M.A.

**Degrees and Hoods.**—See University of London.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

W. C. F. Walters, *Greek*.  
 S. A. F. White, *Mathematics*.  
 J. W. Nicholson „  
 Sir I. Gollancz, *English Language and Literature*.  
 A. W. Pollard, *English Bibliography*.  
 V. Spiers, *French*.  
 J. Fitzmaurice-Kelly, *Spanish*.  
 G. Young, Camoens, *Portuguese*.  
 H. G. Atkins, *German*.  
 Sir Bernard Pares, *Russian*.  
 A. J. Toynbee, *Modern Greek*.  
 R. M. Burrows, *Modern Greek History*.  
 Rev. Canon G. N. Box, *Hebrew*.  
 F. J. C. Hearnshaw, *Medieval and Modern History*.  
 Rev. C. Jenkins, *Ecclesiastical History*.  
 E. J. Urwick, *Political Economy*.  
 Rev. W. R. Matthews, *Philosophy of Religion*.  
 J. W. Adamson, *Theory and Practice of Education*.  
 A. Wildon Carr, *Philosophy*.

**Assistant Professor :**

J. B. Dale, *Mathematics*.

**Readers and Lecturers :**

J. K. Fotheringham, *Ancient History*.  
 B. E. R. Turner, *Greek*.  
 C. M. Knight (Miss), *Greek*.

**Readers and Lecturers—Continued :**

Rev. H. J. White, *Paleography*.  
 E. B. Hall, *Evening Classes*.  
 A. W. Reed, *English Language and Literature*.  
 M. L. Lee (Miss), *English Language and Literature*.  
 K. W. Campbell (Mrs.), *English Language and Literature*.  
 O. T. Williams, *English Language and Literature*.  
 M. Day (Miss), *English Language and Literature*.  
 I. C. Major-Stevenson (Mrs.), *English Language and Literature*.  
 H. M. Margoliouth, *English Language and Literature*.  
 P. G. Thomas, *English Philology* (Evening Department).  
 H. Johnstone (Miss), *Medieval and Modern History*.  
 J. K. Fotheringham, *Ancient History*.  
 Sir S. Low, *Imperial and Colonial History*.  
 A. P. Newton, *Imperial and Colonial History*.  
 A. Weiner, *Evening Classes*. [History].  
 E. F. Churchill, *Evening Classes*.  
 H. D. Oakeley (Miss), *Moral and Mental Philosophy*.  
 R. W. Seton-Watson, *East European History*.  
 F. J. Kidson, *Elocution*. [History].  
 J. Stefansson, *Icelandic*.



**Readers and Lecturers—Continued :**

M. Williams (Miss), *French*.  
C. D. Webb, *French*.  
L. P. de Castelvechio (Miss), *Italian*.  
M. Cimino-King (Mrs.), *Italian*.  
J. M. Villasante, *Spanish*.  
Jose Plà, *Spanish*.  
E. S. Buchheim (Miss), *German*.  
A. G. Haltenhoff, *German*.  
A. Raffi, *Russian*.  
D. Subotic, *Serbian*.  
T. G. Masaryk, *Slavonic Literature and Sociology*.  
G. C. Logio, *Bulbarian*.  
R. W. Seton-Watson, *East European History*.  
L. Wharton, *Polish*.  
L. Oeconomos, *Modern Greek*.

**FACULTY OF LAWS.**

H. J. H. Mackay. W. H. Griffith.  
W. N. Hibbert. A. Page.  
W. V. Ball.

**FACULTY OF SCIENCE.**
**Professors :**

W. B. Bottomley, *Botany and Vegetable Biology*.  
A. W. Crossley, *Chemistry*.  
A. J. Allmand, "  
S. A. F. White, *Mathematics*.  
J. W. Nicholson, "  
O. W. Richardson, *Physics*.  
A. Dendy, *Zoology and Animal Biology*.  
E. Barclay-Smith, *Anatomy, Descriptive and Surgical*.  
W. E. Dixon, *Materia Medica and Pharmacology*.  
W. D. Halliburton, *Physiology*.  
W. J. R. Simpson, *Public Health and Bacteriology*.  
R. T. Hewlett, *Public Health and Bacteriology*.

**Assistant Professors :**

J. B. Dale, *Mathematics, Pure and Applied*.  
D. Sommerville, *Public Health and Bacteriology*.

**Readers and Lecturers :**

R. R. Gates, *Botany*.  
L. E. Hinkel, *Chemistry*.  
D. H. Clibbens, "  
R. W. K. Edwards, *Mathematics*.  
S. T. Shovelton, "  
J. F. Tinto, "  
J. Quinton, "  
W. T. Gordon, *Geology*.

**Readers and Lecturers—Continued :**

W. Wilson, *Physics*.  
A. J. Philpott, *Physics*.  
B. L. Worsnop, "  
J. E. Bowen, "  
W. Brown, *Psychology*.  
D. L. Mackinnon (Miss), *Zoology*.  
M. Tribe, (Miss), *Zoology*.  
R. J. Gladstone, *Anatomy, Descriptive and Surgical*.  
S. A. Boyd, *Applied Anatomy*.  
F. S. Locke, *Physiology*.  
O. Rosenheim, *Biochemistry*.  
D. H. de Souza, *Physiology*.  
C. da Fano, *Histology*.  
R. Charles, *Public Health*.  
A. J. Malcolm, *School Hygiene*.  
T. M. Legge, *Industrial Hygiene*.  
F. E. Taylor, *Bacteriology*.  
G. C. Low, *Parasitology and Medical Entomology*.  
J. E. Barnard, *Microscopy*.  
2 Assistant Lecturers, 6 Demonstrators,  
4 Assistant Demonstrators.

**FACULTY OF ENGINEERING AND APPLIED SCIENCES.**
**Professors :**

D. S. Capper, *Engineering*.  
A. H. Jameson, *Civil Engineering*.  
E. Wilson, *Electrical Engineering*.

**Lecturers :**

O. S. Sinnatt, *Engineering*.  
R. Wolfenden, "

**FACULTY OF THEOLOGY.**
**Professors :**

Rev. G. H. Box, *Hebrew and the Exegesis of the Old Testament*.  
Rev. H. J. White, *Exegesis of the New Testament*.  
Rev. C. Jenkins, *Ecclesiastical History*.  
Rev. W. R. Matthews, *Physiology of Religion*.  
Rev. P. Dearmer, *Ecclesiastical Art*.  
Rev. C. F. Rogers, *Pastoral and Liturgical Theology*.  
E. J. S. Urwick, *Economics*.  
W. J. R. Simpson, *Laws of Health and Disease in their Relation to the Ministerial Office*.

**Lecturers :**

Rev. F. S. Marsh, *Exegesis of the New Testament*.  
Rev. R. Hanson, *Evening Lecturer for Entrance Examination*.  
F. J. Kidson, *Elocution*.

**Library.**—25,000 volumes. *Librarian :* F. W. Walton, M.A.

**Museums.**—King George the Third Museum of Mechanical Models and Philosophical Instruments, and Anatomy.



**NEW COLLEGE**, South Hampstead, London. (1696.)

*Terms* : Three a year.

*Students* : 50.

**OFFICIALS.**

*Principal*.—Rev. A. E. Garvie, M.A., D.D.

*Secretary*.—Rev. H. Staines, M.A., B.D.

**PROFESSORS.**

**FACULTY OF THEOLOGY.**

**Professors :**

Rev. A. E. Garvie, *Biblical and Historical Theology, and Apologetics.*

Rev. H. T. Andrews, *New Testament Exegesis, History and Criticism.*

Rev. W. A. Davies, *Old Testament Exegesis, History and Criticism.*

Rev. A. E. Garvie, *Homiletics and Pastoral Theology.*

Rev. H. H. Scullard, *Ecclesiastical History, Christian Ethics, and History of Religion.*

F. C. F. Hyde, *Elocution.*

**FACULTY OF ARTS.**

Arts Classes of New, Hackney, and Regent's Park Colleges meet, in combination, under the following:

**Professors :**

Rev. H. H. Scullard, *Psychology and Ethics.*

G. W. Kilner, *Classics and Mathematics.*

J. Johnston, *Logic and English.*

**ROYAL VETERINARY COLLEGE**, London, N.W. 1. (1791.)

Recognized as a Research Institute in Animal Pathology by the Board of Agriculture and Fisheries, from whom a grant is received.

*Terms* : Three a year.

*Students* : Average 150.

**OFFICIALS.**

*Principal*.—Sir John McFadyean, M.B., B.Sc., LL.D., M.R.C.V.S.

*Secretary*.—T. C. Wight.

**Degrees conferred.**—Degree or diploma granted students prepared for the professional examinations of the Royal College of Veterinary Surgeons, and for the Degree of Bachelor of Science (Veterinary) of the University of London.

**PROFESSORS.**

E. S. Shave, *Anatomy.*

J. T. Evans, *Biology.*

G. D. Lauder, *Chemistry.*

G. H. Woolridge, *Hygiene and Dietetics, Medicine and Parasitology.*

E. D. Reynolds, *Materia Medica and Pharmacy.*

Sir John McFadyean, *Pathology and Bacteriology.*

G. A. Buckmaster, *Physiology and Histology.*

J. Macqueen, *Surgery.*

1 Demonstrator.

*Senior Research Assistant*.—J. T. Edwards,

**Post-Graduate Courses** of eight weeks each, open only to qualified veterinary surgeons and medical men, in Veterinary Pathology and Bacteriology are held once or twice each year.

**HACKNEY COLLEGE FOUNDATION, REGISTERED**, 527, Finchley Road, Hampstead, London, N.W. 3. (1803.)

Has joint Professors with the New College, Hampstead, and is a Divinity School of the University of London.

*Terms* : Three a year.

*Students* : 20.

*Budget :*

Income .. .. .	£2,820	19s.	0d.
Expenditure .. .. .	£2,779	8s.	6d.

**OFFICIAL.**

*Principal*.—P. T. Forsyth, M.A., D.D.

**Degrees and Hoods.** As London University.

## PROFESSORS.

P. T. Forsyth, *Apologetics, Dogmatics, and Homiletics*.  
 Rev. H. H. Seullard, *Church History, History of Religions, and Christian Ethics*.

Rev. H. T. Andrews, *Hellenistic Greek, New Testament Introduction and Interpretation*.  
 Rev. W. A. Davies, *Hebrew, Old Testament History Introduction and Interpretation*.

3 Lecturers.

Post-Graduate Courses in Theology.

## Libraries.—

College Library.

Principal Cave's Library. *Librarian*: A Senior Student elected annually.

**BIRKBECK COLLEGE**, Breems Buildings, Chancery Lane, E.C. 4. (1823.)

*Terms*: Three a year.

## OFFICIALS.

*Principal*.—George Sente, D.Sc., Ph.D., F.I.C.  
*Secretary*.—H. Wells Eames.

## LECTURERS.

F. A. Wright, *Latin*.  
 F. H. Marshall, *Greek*.  
 J. H. Lobban, *English Literature*.  
 B. M. Daunt (Miss), *English Language*.  
 V. E. Kastner, *French Language and Literature*.  
 L. W. Stone (Miss), *French Romance Philology*.  
 J. Bithell, *German Language and Literature, Italian Language and Literature*.  
 J. Johnston, *Logic*.  
 W. H. Pringle, *Economics*.  
 A. Jones, *History*.  
 J. F. Unstead, *Geography*.  
 G. H. J. Hurst, *The British Constitution*.  
 E. H. Smart, *Mathematics*.  
 C. V. Coates, „  
 L. J. Mordell, *Mathematics*.  
 A. Griffiths, *Physics*.  
 D. Owen, „  
 B. W. Clack, „  
 H. R. Nettleton, „

G. Senter, *Chemistry*.  
 F. Barrow, „  
 S. Sugden, „  
 B. Thole, „  
 F. J. Thornycroft, *Chemistry*.  
 M. G. Barrett (Miss), *Chemistry*.  
 Dame Helen Gwynne-Vaughan, *Botany*.  
 F. Drabble, *Botany*.  
 J. R. Matthews, *Botany*.  
 J. Ramsbottom, „  
 H. W. Unthank, *Zoology*.  
 E. A. Spaul, „  
 J. W. Evans, *Geology*.  
 A. M. Davies, „  
 G. McD. Davies, „  
 G. H. J. Hurst, *Laws*.  
 B. L. A. O'Malley, *Laws*.  
 D. N. Pritt, *Laws*.  
 F. Barrett-Lennard, *Laws*.  
 W. Walker, *Matriculation (Eng., Maths., and Classics)*.  
 J. B. Harrold, *Accountancy and Book-keeping*.

**Post-Graduate Courses**.—Post-graduate work is carried on in most of the departments, and students undertake work for the higher degrees of the University of London in the Faculties of Arts and Science.

**Museums of Botany, Zoology, and Geology.**

**Libraries**.—A Reference Library containing about 5,000 volumes, and a Lending Library containing about 1,000 volumes. The books in both libraries belong almost exclusively to the Arts Faculty. The various departments of the Science Faculty have their own libraries, containing in all about 1,000 volumes. The Library is open daily for the use of students from 2 p.m. to 9 p.m. *Librarian*: Miss M. C. Hildyard, B.A.

**THE COLLEGE OF PRECEPTORS**, 2 and 3 Bloomsbury Square, W.C. 1. (1846.)

Membership is open, under conditions, to all persons engaged in education.

*Terms* : Two a year.

**OFFICIALS.**

*President of the Council*.—Sir Philip Magnus, Bart, M.P., F.C.P.

*Vice-Presidents*.—

R. F. Charles, M.A.; Prof. John Adams, M.A., LL.D., F.C.P.; and

J. F. P. Rawlinson, K.C., M.P.

*Dean*.—W. G. Rushbrook, LL.M.

*Treasurer*.—G. Armitage-Smith, M.A., D.Litt.

*Secretary*.—G. Chalmers.

*Assistant Secretary*.—C. R. Mardling.

**Degrees and Hoods**.—Fellowship (F.C.P.); Licentiate'ship (L.C.P.); Associateship (A.C.P.).

Holders of the College Diplomas are entitled to wear gowns and hoods as follows:

Fellows: The hood to be of black silk, with violet edging, and two bands of same colour, each an inch wide, parallel to the edging at a distance of an inch from each other and from the edging.

Licentiates: The hood to be of black silk or stuff, with edging of violet silk, and a band of same colour an inch wide parallel to the edging at a distance of an inch from the edging.

Associates: The hood to be of black stuff, with edging of violet silk.

**Library**.—The Library, containing valuable works of reference, many standard works on the Theory and Practice of Education and on subjects of school instruction, and a collection of modern school text-books.

**BEDFORD COLLEGE FOR WOMEN**, Regent's Park, London, N.W. 1. (1849.)

*Terms* : Three a year.

*Students* : 576.

*Budget* : Total Expenditure, £57,247.

**OFFICIALS.**

*Principal*.—Miss Tuke, M.A.

*Dean of the Faculty of Arts*.—Prof. Caroline Spurgeon, Litt.D., D.-ès-L.

*Dean of the Faculty of Science*.—Miss C. A. Raisin, D.Sc.

**Degrees conferred**.—As the University of London.

**PROFESSORS.**

**Professors :**

P. Geyl, *Dutch*.

C. F. E. Spurgeon, *English Literature*.

G. Rudler, *French Literature*.

J. G. Robertson, *German*.

D. A. Slater, *Latin*.

H. Hilton, *Mathematics*.

**Readers :**

M. Cary, *Ancient History*.

H. Crompton, *Chemistry*.

J. F. Spencer, *Physical Chemistry*.

S. Melhuish (Miss), *Education*.

**Readers—Continued :**

P. G. Thomas, *English Language and Medieval Literature*.

H. V. Routh, *English Literature*.

J. Steppat, *German*.

J. M. MacGregor, *Greek*.

J. S. Edkins, *Physiology*.

B. Edgell (Miss), *Psychology*.

H. W. M. Tims, *Zoology*.

33 Lecturers and Assistant Lecturers,

14 Assistants and Demonstrators.

**Library**.—The Tate Library. *Librarian* : Miss J. A. Paterson.

**Post-Graduate Courses**.—The Pileher Research Laboratory for research in Science is attached to the College, and facilities are provided for Post-Graduate Study in the following subjects: English Language and Literature, French Language and Literature, German, Italian, Latin, Mathematics, Botany, Chemistry, Geology, Physics, Physiology, Philosophy and Psychology, Zoology.

ST. JOHN'S HALL, Highbury, N. 5. (1863.)

Terms : Three a year.

Students : 57.

# OFFICIAL.

Principal.—A. W. Greenup, D.D., Litt.D.

## PROFESSORS.

Rev. A. W. Greenup, *Biblical Exegesis*.

Rev. H. Smith, *Philosophy*.

Rev. J. M. Harden, *Systematic Theology*.

Rev. Preb. W. H. Stone, *Homiletics*.

5 Lecturers.

Librarian : Harold Smith, D.D.

WESTFIELD COLLEGE, Hampstead, N.W. 3. (1882.)

Terms : Three a year.

Students : 89.

# OFFICIALS.

Principal.—Miss B. S. Phillpotts, O.B.E., Litt.D., F.R.Hist.S.

Vice-Principal.—Miss A. W. Richardson, B.A.

Bursar.—Miss R. C. Black.

## LECTURERS AND READERS.

C. A. J. Skeel (Miss), *History*.

C. E. Parker (Miss), *Classics*.

E. M. Almond (Miss) „

M. Alford (Miss) „

Rev. J. W. Coke Norris, *Classics*.

I. J. Whitby (Miss), *Mathematics*,

*Pure and Applied*.

M. Anderson Scott (Miss), *History*.

K. M. Warren (Miss), *English Language and Literature*.

B. M. Daunt (Miss), *English Language and Literature*.

Madame Turquet, *French*.

E. M. Delf (Miss), *Botany*.

Librarian : Miss C. E. Parker.

CITY AND GUILDS OF LONDON INSTITUTE, Head Office at Gresham College, London, E.C. (1878.)

# OFFICIALS

Chairman of the Council.—The Right Hon. the Earl of Halsbury.

Chairman of the Executive Committee.—Sir Edward H. Buck, M.A., LL.B.

Treasurer.—L. B. Sebastian.

Honorary Secretaries.—Sir John Watney and P. M. Evans, M.A.

Secretary.—A. L. Soper.

Diploma.—A.C.G.I.

The operations of the Institute are divided broadly into four branches:

1. The City and Guilds (Engineering) College, Exhibition Road, S.W., forms the Engineering Section of the Imperial College of Science and Technology.

2. The City and Guilds Technical College, Finsbury, provides day courses of instruction in Engineering and Chemistry.

3. The City and Guilds South London Technical Art School, 122-4, Kennington Park Road, embraces departments of Modelling, Drawing and Painting, and House Decoration.

4. The object of the Institute's Department of Technology, Exhibition Road, S.W., is the registration and inspection of classes in Technology, Domestic Subjects, and in Manual Training, and the holding of annual examinations in the subjects taught in such classes throughout the country and in the Colonies.

## PROFESSORS.

### Professors :

(At the City and Guilds (Engineering) College, Exhibition Road, S.W.)

W. E. Dalby, *Mechanical Engineering and Motive Power*.

### Professors—Continued :

S. W. Dixon, *Civil Engineering and Surveying*.

T. Mather, *Electrical Engineering*.

A. R. Forsyth, *Mathematics*.

**Assistant Professors :**

W. Hewson.  
A. Cruickshank.  
G. W. O. Howe.  
H. Klugh.  
E. F. D. Witchell.  
S. P. Smith.  
J. W. Purser.  
11 Lecturers.

**Professors :**

(At the City and Guilds Technical College, Finsbury.)  
W. H. Eccles, *Applied Physics and Electrical Engineering*.  
A. J. Margetson, *Civil and Mechanical Engineering*.  
(Vacant), *Applied Chemistry*.  
8 Lecturers.

**BATTERSEA POLYTECHNIC**, Battersea Park Road, London, S.W. 11. (1891.)

*Terms* : Three a year.

*Students* : Evening and afternoon .. 1,700  
Full-time day courses .. 490

**OFFICIAL.**

*Principal*.—R. H. Pickard, D.Sc., F.R.S.

**PROFESSORS.**

W. E. M. Curnock, *Mechanical and Civil Engineering*.  
A. T. Dover, *Electrical Engineering*.  
F. M. Saxelby, *Mathematics*.  
S. Marsh, *Physics*.  
J. Wilson, *Chemistry*.

H. Bideleux (Miss), *Hygiene and Physiology*.  
A. H. Baxter, *Art*.  
M. E. Marsden (Miss), *Domestic Science*.  
H. D. Wetton, *Music*.

**Post-Graduate Courses.**—Post-Graduate Courses are held in the Polytechnic in certain special branches of Chemistry and Engineering, such as Chemical Engineering, Advanced Structural Design, and Internal Combustion Engines, with special relation to the Petrol Motor and its application to Aeronautical work.

**Library.**—The Library contains books on Engineering, Architecture, Science, Art, Music, Hygiene, Domestic Science, etc.—the number of books about 6,000.

**LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE**, Clarendon Market, Kingsway, W.C. 2. (1895.)

*Terms* : Three a year. *Students* : (1918-19) 2,273.  
*Budget* (Total receipts 1918-19): £24,758 6s. 6d.

**OFFICIALS.**

*Chairman, Court of Governors*.—Sir Arthur Steel-Maitland, Bart., M.P.  
*Vice-Chairman, Court of Governors*.—The Hon. Sir John Cockburn, K.C.M.G., M.D.  
*Director*.—Sir William H. Beveridge, K.C.B., M.A., B.C.L.  
*Secretary*.—Mrs. Mair, D.B.E., M.A.  
*Dean*.—Miss C. S. Mactaggart.

**Degrees conferred.**—As University of London.

**PROFESSORS.**

A. L. Bowley, *Mathematics and Statistics*.  
E. Cannan, *Economic Theory*.  
L. R. Dicksee, *Accounting and Business Methods*.  
H. S. Foxwell, *Banking and Currency*.  
A. Pearce Higgins, *International Law*.  
L. T. Hobhouse, *Sociology*.  
J. H. Morgan, *Constitutional Law*.

A. J. Sargent, *Geography and Commerce*.  
C. G. Seligman, *Ethnology*.  
E. J. Urwick, *Social Science and Administration*.  
Graham Wallas, *Political Science*.  
S. Webb, *History and Public Administration*.  
E. A. Westermarck, *Sociology*.  
12 Lecturers.

**Post-Graduate Courses.**—Post-Graduate Courses and research in all departments.

**Library.**—British Library of Political Science. *Librarian* : B. M. Headicar.



**CITY OF LONDON COLLEGE**, White Street and Ropemaker Street Moorfields.

*Terms* : Three a year.

*Students* : 2,200 evening students; 300 day students.

#### OFFICIALS.

*Principal*.—Sidney Humphries, B.A., LL.B. (Cantab.).

*Secretary and Registrar*.—David Savage, F.C.I.S.

#### LECTURERS.

G. Mairet, *Arithmetic*.  
 J. F. Davis, *Banking and Finance*.  
 H. A. Wesson, *Book-Keeping, Accountancy and Auditing*.  
 G. T. Barton, *Book-Keeping, Accountancy and Auditing*.  
 W. Fenton, *Bookkeeping*.  
 H. S. Jardine, *Building Construction*.  
 J. P. Larke                   "  
 G. Mairet, *Business Organization and Routine*.  
 A. W. Bain, *Chemistry*.  
 G. Mairet, *Commercial Correspondence and Business Method*.  
 B. Gehrke, *Dutch*.  
 W. H. L. Jones, *Economics*.  
 L. Aaronson, *Economics*.  
 E. Minshall, *Elocution*.  
 B. L. K. Henderson, *English*.  
 G. O. E. Lydall (Miss), *English*.  
 W. F. Spalding, *Foreign Exchange*.  
 J. A. Perret, *French*.  
 H. Saunton                   "  
 C. S. Howells, *French and Mathematics*.  
 P. Barber, *German*.  
 R. S. Crump, *Greek and Latin*.  
 A. N. Aynsley (Miss), *Gymnastics* (Women).

C. Evans, *Insurance (Accident)*.  
 J. Henderson, *Insurance (Fire)*.  
 S. Preston                   "  
 J. B. Eland, *Insurance (Marine)*.  
 W. Wilkinson, *Italian*.  
 S. Humphries, *Law*.  
 W. G. Hawtin               "  
 H. C. Bickmore           "  
 R. Bryant, *Mathematics*.  
 Mrs. Fitzhenry, *Pianoforte*.  
 J. C. Mascarenhas, *Portuguese*.  
 J. J. Taylor, *Quantity Surveying*.  
 S. G. Stafford, *Russian*.  
 Nandy Hoskins, *Sanitary Science*.  
 J. A. Stocker, *Secretarial Practice and Duties*.  
 E. E. Rayner, *Shorthand*.  
 F. C. Perrins, *Shorthand (French)*.  
 D. Bowman, *Spanish*.  
 J. G. Marder, *Spanish*.  
 A. E. Gayer, *Surveying and Leveling*.  
 A. E. Garrett, *Textiles*.  
 A. E. Morton, *Typewriting and Shorthand*.  
 W. G. Brittain, *Typewriting and Shorthand*.  
 R. P. Morris, *Valuation*. [hand.  
 M. W. Tossell, *Writing*.

**Library**.—Students' Reference and General Library. *Librarian* : Frank Barnard.

**EAST LONDON COLLEGE**, Mile End Road, London, E. 1. (1907.)

*Terms* : Three a year.

*Students (Day)* : 500.

*Budget* : £32,000.

#### OFFICIALS.

*Chairman of College Council*.—Sir C. N. Dalton, K.C.M.G., C.B., D.C.L.

*Deputy Chairman of College Council*.—Arthur Warren Williams.

*Treasurer*.—E. H. Pooley, M.A., LL.B.

*Principal*.—J. L. S. Hatton, M.A.

*Pegistrar*.—E. J. Wignall.

*Librarian*.—Miss C. S. Murphy.

**Degrees and Hoods**. See University of London.

#### PROFESSORS.

J. L. S. Hatton, *Mathematics*.  
 F. R. Earp, *Classics*.  
 Sir S. Lee, *English*.  
 M. Perry (Mrs.), *French*.  
 F. Clarke, *Modern History*.  
 C. H. Lees, *Physics*.  
 J. R. Partington, *Chemistry*.

F. E. Fritch, *Botany*.  
 E. H. Lamb, *Civil and Mechanical Engineering*.  
 J. T. MacGregor Morris, *Electrical Engineering*.  
 (Vacant), *Aeronautics*.  
 29 Lecturers.

**Post-Graduate Courses** in English, French, Modern History, Mathematics, Physics, Chemistry, Botany, Engineering,

**NORTHAMPTON POLYTECHNIC INSTITUTE**, Clerkenwell, E.C.1. (1896.)

*Terms* : Three per year.

**OFFICIALS.**

*Principal*.—R. Mullineux Walmsley, D.Sc., F.R.S.E.  
*Librarian*.—F. Thornsbey.

**Mechanical Engineering and Metal Trades Department.**

*Head of the Department*.—C. E. Larard.

*Chief Assistant*.—W. Longland.

6 Assistants, 6 Lecturers, 5 Instructors.

**Electrical Engineering and Applied Physics Department.**

*Head of the Department*.—R. M. Walmsley.

*Associate-Head of the Department*.—F. M. Denton.

19 Assistants, 7 Lecturers.

**Department of Technical Optics.**

*Hon. Head of the Department*.—F. J. Cheshire.

*Head of the Department*.—S. D. Chalmers.

2 Assistants, 3 Lecturers, 5 Instructors.

**Department of Technical Chemistry.**

*Head of the Department*.—S. Field.

2 Assistants, 2 Lecturers.

**Horological Department.**

*Director*.—T. D. Wright.

2 Instructors.

**Miscellaneous Trades.**

*Director*.—C. J. Rosenberg.

**Women's Trades and Domestic Economy Department.**

*Head of the Department*.—Miss A. M. Tuck.

7 Assistants.

**IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY**, South Kensington, London.  
(1907.)

The purposes of the Imperial College as set forth in its Royal Charter are:

To give the highest specialized instruction, and to promise the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to industry.

*Terms* : Three a year.      *Students* : 900 undergraduates, 110 post graduates.

*Budget* : Expenditure from £90,000 to £100,000 annually.

*Chairman of Governing Body*.—The Most Hon. the Marquess of Crewe, K.G.

*Chairman of Executive Committee*.—The Rt. Hon. Sir Arthur Acland, Bt.

*Chairman of Delegacy*.—Sir Dugald Clerk, K.B.E.

**OFFICIALS.**

*Rector*.—Sir Alfred Keogh, G.C.B., G.C.V.O., C.H., LL.D.

*Secretary*.—Alexander Gow, M.A., B.Sc.

*Registrar*.—John Jones.

**Degrees and Hoods.—**

Diploma of Membership of the Imperial College (D.I.C.). Hood as the Oxford M.A., the side and shape of black silk or black stuff, partly lined with white watered silk to a depth of 6 inches, with an edging 1 inch in width, of royal purple velvet,  $\frac{1}{2}$  inch from the outer edge, and with a neck-band of black silk  $1\frac{1}{2}$  inches in width, lined with white watered silk, and edged with white watered silk  $\frac{1}{4}$  inch in width.

Diploma of Associateship, Royal College of Science (A.R.C.S.).

Diploma of Associateship, Royal School of Mining (A.R.S.M.).

Diploma of Associateship, City and Guilds Institute (A.C.G.I.).

Hoods as for the D.I.C., except that the black portion in the neck-band of the hood is replaced by coloured silk. A.R.C.S., white; A.R.S.M., old gold; A.C.G.I., red, as in the arms of the City of London.

**PROFESSORS.****Professors :**

J. B. Farmer, *Biology and Botany*.  
H. M. Lefroy, *Entomology*.  
V. H. Blackman, *Plant Physiology*.  
P. Groom, *Woods and Fibres*.  
E. W. MacBride, *Zoology*.  
W. A. Bone, *Chemical Technology*,  
*Fuel, etc.*  
J. W. Hinchley, *Chemical Engineering*.  
H. B. Baker, *Inorganic Chemistry*.  
J. F. Thorpe, *Organic Chemistry*.  
J. C. Philip, *Physical Chemistry*.  
S. M. Dixon, *Civil Engineering*.  
T. Mather, *Electrical Engineering*.  
W. E. Walley, *Mechanical Engineering*.  
W. W. Watts, *Geology*.  
C. G. Cullis, *Economic Mineralogy*.  
A. R. Forsyth, *Mathematics*.  
A. N. Whitehead, *Applied Mathematics*.  
H. C. H. Carpenter, *Metallurgy*.  
S. J. Truscott, *Mining*.  
L. H. Cooke, *Surveying*.  
W. W. Watts, *Mining Geology*.  
F. J. Cheshire, *Optical Engineering*  
*and Applied Optics*.  
A. E. Courady, *Optical Design*.  
H. L. Callendar, *Physics*.

**Professors—Continued :**

Lord Rayleigh, *Physics*.  
A. O. Rankine, *Physics*.  
A. Fowler, *Astrophysics*.

**Assistant Professors :**

S. B. Schryver, *Biochemistry*.  
J. W. Hinchley, *Chemical Engineering*.  
(Vacant), *Chemistry*.  
J. Purser, *Civil Engineering*.  
G. W. O. Howe, *Electrical Engineering*.  
W. Hewson, *Mechanical Engineering*.  
E. F. D. Witchell, *Mechanical Engineering*.  
A. Cruickshank, *Mechanical Engineering*.  
A. R. Richardson, *Mathematics*.  
P. T. Wrigley, "  
H. Klugh, "  
W. H. Merrett, *Metallurgy*.  
E. O. Courtman, "  
L. H. Cooke, *Mining*.  
S. J. Truscott, *Mining*.  
(Vacant), *Physics*.  
A. Pollard, *Optical Engineering* (Mechanical), *and Instrument Design*.  
20 Lecturers.

**Post-Graduate Courses.**—These are given in all the ordinary departments and sub-departments, and in addition in Railway, Structural, and Hydraulic Engineering; Surveying and Geology; Electrical Machinery and Transformers; Economics Botany-Biochemistry; Economic Entomology, etc.

**Museums.**—The Science Museum adjoins the buildings of the College; in addition each department has its own teaching collection or museum.

**Libraries.**—The Science Library of the Science Museum is situated within the Imperial College Buildings, and is available for the use of staff and students of the College.

In addition each department has its separate Technical Library.

**AFFILIATED INSTITUTIONS.**

The Royal College of Science, the Royal School of Mines, and the City and Guilds (Engineering) Colleges form integral parts of the Imperial College.

The Department of Metallurgy of the University of Sheffield is recognized as being in addition with the Imperial College for the Advanced Metallurgy of Iron and Steel.

**ST. BARTHOLOMEW'S HOSPITAL, London, E.C. (1123.)***Sessions : Three per year.***OFFICIALS.***Dean.*—T. W. Shore, M.D., B.Sc.*Warden.*—W. G. Ball, F.R.C.S.*Registrar.*—W. E. Sargant, M.R.C.S., L.R.C.P.**LECTURERS.**Sir W. P. Herringham, *Clinical Medicine*. [cine.]H. H. Tooth, *Clinical Medicine*.

A. E. Garrod " "

James Calvert " "

H. Morley Fletcher, *Clinical Medicine*.W. Langdon Brown, *Practical Medicine*.

H. Thursfield " "

Sir Anthony Bowlby, *Clinical Surgery*.

D'Arcy Power " "

H. J. Waring " "

W. McAdam Eccles " "

R. C. Bailey " "

H. Wilson, *Practical Surgery*.W. Girling Ball, *Practical Surgery*.L. B. Rawling, *Operative Surgery*.

C. Gordon Watson " "

H. Wilson " "

W. S. A. Griffith, *Midwifery and Diseases of Women*.H. Williamson, *Midwifery and Diseases of Women*. [Women.]J. D. Barris, *Midwifery and Diseases of Women*.M. Donaldson, *Practical Midwifery*.Prof. F. W. Andrewes, *Pathology*.M. H. Gordon, *Pathology*.A. E. Garrod, *Chemical Pathology*.

R. L. M. Wallis " "

C. M. Hinds Howell, *Morbid Anatomy*.

A. E. Gow " "

H. Blakeway " "

J. E. H. Roberts " "

A. E. Stansfeld, *Practical Pathology*.

R. M. Viek " "

R. G. Canti " "

W. H. Jessop, *Ophthalmic Medicine and Surgery*.W. Holmes Spicer, *Ophthalmic Medicine and Surgery*.Ernest West, *Diseases of the Ear*.

Sydney Scott " "

W. D. Harmer, *Diseases of the Throat and Nose*.F. A. Rose, *Diseases of the Throat and Nose*.C. MacMahon, *Speech Defects*.R. C. Elmslie, *Orthopedic Surgery*.H. G. Adamson, *Diseases of the Skin*.H. Morley Fletcher, *Diseases of Children*.H. Thursfield, *Diseases of Children*.E. P. Cumberbatch, *Medical Electricity*.H. Walsham, *X-Rays*.R. Armstrong-Jones, *Mental Diseases and Insanity*.R. C. Aekland, *Dental Surgery*.

Harold Austen " "

W. F. Cross, *Anesthetics*.

H. E. G. Boyle " "

F. J. Trewby " "

R. A. Lyster, *Forensic Medicine*.A. Maephail, *Descriptive and Surgical Anatomy*. [Anatomy.]E. G. Stanley, *Descriptive and Surgical Anatomy*.A. L. Moreton, *Descriptive and Surgical Anatomy*.R. A. Ramsay, *Descriptive and Surgical Anatomy*.Prof. F. A. Bainbridge, *General Anatomy and Physiology*.J. Trevan, *General Anatomy and Physiology*.P. Hamill, *Materia Medica, Pharmacology and Therapeutics*.J. Langford Moore, *Materia Medica, Pharmacology and Therapeutics*.T. W. Shore, *Biology and Comparative Anatomy*.W. A. Cunningham, *Biology and Comparative Anatomy*.W. H. Hurtle, *Chemistry*.E. Cahen, *Chemistry*.F. Womaek, *Physics*.F. L. Hopwood, *Physics*. [Iary Law.]R. A. Lyster, *Public Health and Sani-***ST. THOMAS'S HOSPITAL MEDICAL SCHOOL, Albert Embankment, S.E. (1207.)****OFFICIALS.***Dean.*—Sir Cutlibert Wallace, K.C.M.G., C.B., F.R.C.S.*Sub-Dean.*—C. R. Box, M.D., B.S., B.Sc.*Medical Secretary.*—A. Elliot, M.A., M.D., M.R.C.P.*Medical Registrar.*—E. Wordley, B.A., M.B., B.C.*Surgical Registrar.*—K. H. McMillan.*Obstetric Registrar.*—A. H. Richardson, M.A., M.B., B.C.*Ophthalmic Registrar.*—P. G. Doyne, B.A., M.B., B.Ch., F.R.C.S.*Librarian.*—Prof. F. G. Parsons, F.R.C.S.

## PROFESSORS.

## Consulting Physicians :

J. Harley, M.D.  
 Sir Seymour J. Sharkley, M.A., M.D.  
 T. D. Acland, M.A., M.D.  
 H. P. Hawkins, C.B.E., M.A., M.D.  
 H. W. G. Mackenzie, M.A., M.D.  
 R. P. Smith, M.D.

## Consulting Obstetric Physician :

H. Gervis, M.D., F.S.A.

## Consulting Surgeons :

Sir George H. Makins, G.C.M.G., C.B.  
 W. H. Battle.  
 Sir Charles A. Ballance, K.C.M.G.  
 C.B., M.V.O., M.S.

## Consulting Ophthalmic Surgeon :

J. B. Lawford.

## Consulting Dental Surgeon :

C. E. Truman, M.A.

## Consulting Anesthetist :

Walter Tyrrell.

## Professors :

F. G. Parsons, *Anatomy*.  
 L. S. Dudgeon, *Bacteriology*.

## Lecturers :

J. H. Brinkworth, *Physics*.  
 H. R. Le Suer, *Chemistry*.  
 — Mennell, *Anesthetics*.  
 J. Mellanby, *Physiology*.  
 H. P. Newsholme, *Pathology*.  
 E. Smith, *Forensic Medicine*.  
 W. H. B. Stoddart, *Mental Diseases*.  
 W. J. Wooley, *Pharmacology*.  
 W. Rushton, *Biology*.  
 Also the Physicians and Surgeons of  
 the hospital.  
 11 Demonstrators.

Museum.—*Curator* : Prof. S. G. Shattock, F.R.C.S.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, Lincoln's Inn Fields, W.C.  
 (1462.)

## OFFICIALS.

*President*.—Sir George Henry Matims, G.C.M.G., C.B.

*Vice-Presidents*.—

Sir Anthony A. Bowlby, K.C.B., K.C.M.G., K.C.V.O.

Sir John Bland-Sutton.

*Secretary*.—S. Forrest Cowell, M.A.

*Director of Examinations*.—Frederick G. Hallett, O.B.E.

*Hunterian Professor*.—Arthur Keith, LL.D., F.R.S.

*Bradshaw Lecturer*.—Sir Charles A. Ballance, K.C.M.G., C.B., M.V.O.

Degrees conferred.—Fellow (F.R.C.S.); Member (M.R.C.S.); Licentiate in Dental  
 Surgery (L.D.S.R.C.S.Eng.).

*Librarian* : Victor G. Plarr, M.A.

## Institutes and Museums.—

*Conservator of Museum* : Arthur Keith, M.D., C.M., LL.D., F.R.S.

*Pathological Curator* : S. G. Shattock, F.R.S.

*Assistant Pathological Curator*.—C. F. Beadles, M.R.C.S.

*Physiological Curator* : R. H. Burne, M.A.

GUY'S HOSPITAL MEDICAL SCHOOL, London Bridge, S.E. (1724.)

*Sessions* : Three per year.

## OFFICIALS.

*Warden*.—L. Bromley, M.C.

*Dean*.—H. C. Cameron, M.D.

## LECTURERS.

W. Hale White, *Principles and Practice  
 of Medicine*.

L. E. Shaw, *Principles and Practice of  
 Medicine*.

J. Fawcett, *Principles and Practice of  
 Medicine*.

A. P. Beddard, *Principles and Practice  
 of Medicine*.

N. Mutch, *Practical Medicine*.

H. W. Barber ,, ,,

T. B. Heaton ,, ,,

Sir W. Arbuthnot Lane, Bart., *Principles  
 and Practice of Surgery*.

L. A. Dunn, *Principles and Practice of  
 Surgery*.

Sir Alfred Fripp, *Principles and Prac-  
 tice of Surgery*.

F. J. Steward, *Principles and Practice  
 of Surgery*.

P. Turner, *Operative Surgery*.

E. C. Hughes ,, ,,

L. Bromley ,, ,,



LECTURERS—*Continued* :

- |   |   |
|---|---|
| A. H. Todd, <i>Practical Surgery.</i>                         | A. R. Thompson, <i>Diseases of the Genito-Urinary System.</i> |
| G. T. Mullally, <i>Practical Surgery.</i>                     | R. Wynne Rouw, <i>Dental Surgery.</i>                         |
| R. C. Ozanne       "       "                                  | Maurice Craig, <i>Psychological Medicine.</i>                 |
| E. G. Schlesinger       "       "                             | A. P. Beddard, <i>Materia Medica and Therapeutics.</i>        |
| G. Bellingham Smith, <i>Obstetrics and Gynecology.</i>        | A. J. Clark, <i>Pharmacology.</i>                             |
| H. Chapple, <i>Obstetrics and Gynecology.</i>                 | J. H. Ryffel, <i>Forensic Medicine.</i>                       |
| A. J. McNair, <i>Practical Obstetrics.</i>                    | R. King Brown, <i>Hygiene and Public Health.</i>              |
| P. P. Laidlaw, <i>Pathology.</i>                              | G. Rowell, <i>Anesthetics.</i>                                |
| G. W. Goodhart, <i>Morbid Histology.</i>                      | C. H. Fagge, <i>Anatomy.</i>                                  |
| H. S. French, <i>Morbid Anatomy.</i>                          | R. P. Rowlands, <i>Anatomy.</i>                               |
| G. H. Hunt       "       "                                    | L. Bromley       "       "                                    |
| R. Davies-Colley, <i>Surgical Pathology.</i>                  | A. H. Todd       "       "                                    |
| J. W. H. Eyre, <i>Bacteriology.</i>                           | G. T. Mullally       "       "                                |
| J. H. Ryffel, <i>Chemical Pathology.</i>                      | R. C. Ozanne       "       "                                  |
| G. W. Nicholson, <i>Clinical Microscopy.</i>                  | E. G. Schlesinger       "       "                             |
| H. L. Eason, <i>Ophthalmology.</i>                            | M. S. Pembrey, <i>Physiology.</i>                             |
| W. M. Mollison, <i>Diseases of the Throat, Nose, and Ear.</i> | G. Marshall       "       "                                   |
| T. B. Layton, <i>Diseases of the Throat, Nose, and Ear.</i>   | T. Martin Lowry, <i>Chemistry.</i>                            |
| Sir E. Cooper Perry, <i>Diseases of the Skin.</i>             | R. W. Merriman       "       "                                |
| A. F. Hertz, <i>Diseases of the Nervous System.</i>           | H. Rogerson, <i>Chemistry.</i>                                |
| H. C. Cameron, <i>Diseases of Children.</i>                   | A. H. Fison, <i>Physics.</i>                                  |
|   | H. H. Abram       "       "                                   |
|   | T. J. Evans, <i>Biology.</i>                                  |
|   | T. Reed, <i>Biology.</i>                                      |

ST. GEORGE'S HOSPITAL MEDICAL SCHOOL, Hyde Park Corner, S.W. 1. (1733.)

*Terms* : Two a year.

*Students* : Average 25.

OFFICIALS.

*Acting-Dean of the Medical School.*—R. R. James, F.R.C.S.

*Hon. Treasurer.*—W. S. Fox, M.D.

LECTURERS.

- |   |   |
|---|---|
| C. Ogle, <i>Principles and Practice of Physic.</i>            | I. Baek, <i>Principles and Practice of Surgery.</i>                       |
| A. C. Latham, <i>Principles and Practice of Physic.</i>       | G. F. Darwall-Smith, <i>Midwifery and Diseases of Women and Children.</i> |
| J. S. Collier, <i>Principles and Practice of Physic.</i>      | E. C. Greenwood, <i>Vaccination.</i>                                      |
| A. J. Jex-Blake, <i>Principles and Practice of Physic.</i>    | J. C. Woods, <i>Insanity.</i>   |
| C. W. Daniels, <i>Tropical Medicine.</i>                      | H. B. Grimsdale, <i>Ophthalmic Surgery.</i>                               |
| H. J. Pendlebury, <i>Principles and Practice of Surgery.</i>  | W. S. Fox, <i>Diseases of the Skin.</i>                                   |
| Sir Crisp English, <i>Principles and Practice of Surgery.</i> | H. S. Barwell, <i>Diseases of the Throat</i>                              |
| W. F. Fedden, <i>Principles and Practice of Surgery.</i>      | F. Morley, <i>Dental Surgery.</i> [and Ear.                               |
|   | J. A. Torrens, <i>Practical Medicine.</i>                                 |
|   | C. H. S. Frankau, <i>Practical Surgery.</i>                               |
|   | G. A. Ewart, <i>Operative Surgery.</i>                                    |
|   | 4 Assistant Lecturers, 3 Assistant Teachers.                              |

**Post-Graduate Courses.**—As arranged by the Post-Graduate Association.

**Libraries.**—There is a Reference Library for the use of students and staff. *Secretary and Librarian* : S. A. Williamson.

**Museums.**—

Pathological Museum.

Hunterian Society.

## (1) LONDON HOSPITAL MEDICAL COLLEGE. (1785.)

## (2) LONDON HOSPITAL DENTAL SCHOOL. (1911.)

A constituent school of the University of London in the Faculty of Medicine.

*Terms* : Two a year.

*Students* : 300-400.

## OFFICIALS.

*Chairman of College Board*.—W. D. Hoare.

*Dean*.—Prof. W. Wright, M.B., D.Sc., F.R.C.S.

*Secretary*.—E. J. Burdon.

## PROFESSORS.

## Professors :

W. Wright, *Anatomy*.

E. P. Cathcart, *Physiology*.

W. Bulloch, *Pathology and Bacteriology*.

## Lecturers :

W. J. Hadley, *Medicine*.

J. Parkinson, *Cardiology*.

T. Thompson, *Clinical Medicine*.

J. Hutchinson, *Surgery*.

R. Howard, *Surgery*.

H. Lett, *Operative Surgery*.

R. Howard, " "

R. Warren, *Clinical Surgery*.

R. Milne, " "

H. R. Andrews, *Midwifery and Diseases of Women*.

E. L. Holland, *Practical Obstetrics*.

R. J. Probyn-Williams, *Anesthetics*.

E. W. Clapham, *Anesthetics*.

A. S. Daly, " "

N. C. Rutherford, *Anatomy*.

A. J. Walton, " "

H. S. Souttar, " "

L. J. Austin, " "

I. Feldman, *Physiology*.

W. A. M. Smart, *Physiology*.

O. Leyton, *Pharmacology and Materia Medica : Practical Pharmacy*.

E. Mellanby, *Pharmacology and Materia Medica : Practical Pharmacy*.

F. A. Hocking, *Pharmacology and Materia Medica : Practical Pharmacy*.

P. Fildes, *Pathology*.

L. W. Rajchman, *Pathology*.

H. M. Turnbull, " "

Russell Howard, " "

P. N. Pantan, " "

H. L. Tidy, " "

P. Fildes, *Bacteriology*.

L. W. Rajchman, *Bacteriology*.

G. B. Bartlett, *Pathological Histology*.

W. W. Woods, " "

W. J. Hadley, *Morbid Anatomy*.

O. Leyton, " "

## Lecturers—Continued :

T. Thompson, *Morbid Anatomy*.

C. H. Miller, " "

F. J. Smith, *Forensic Medicine*.

R. Hutchinson, *General Therapeutics*.

T. H. Openshaw, *Orthopedic Surgery*.

F. Kidd, *Genito-Urinary Surgery*.

A. B. Roxburgh, *Ophthalmology*.

H. Tod, *Otology*.

F. F. Muecke, *Otology*.

H. Lambert Lack, *Laryngology*.

Norman Patterson, " "

J. H. Sequeira, *Dermatology*.

H. Chapman, *Dental Surgery*.

Sir F. M. Farmer, *Dental Surgery*.

G. Northeroft, " "

G. P. Pollitt, " "

E. Sprawson, " "

W. Thew, " "

R. Hutchinson, *Foods and Dietetics*.

J. K. Will, *Psychological Medicine*.

G. W. Daniels, *Tropical Medicine*.

S. Gilbert Scott, *Radiography and Radiotherapeutics*.

R. S. Woods, *Therapeutic Electricity*.

R. Hutchinson, *Diseases of Children*.

F. Warner, *Neuroses and Psychoses of Children*.

H. Candy, *Chemistry*.

A. H. Fison, *Physics*.

G. P. Mudge, *Biology*.

J. T. Cunningham, *Biology*.

Sir F. M. Farmer, *Dental Surgery and Pathology*.

H. Northeroft, *Operative Dental Surgery*.

W. Thew, *Dental Prosthesis*.

G. Paton Pollitt, *Operative Dental Prosthesis*.

H. Chapman, *Odonto-prosopic Orthopedics*.

E. Sprawson, *Dental Histology*.

O. Grünbaum, *Dental Materia Medica*.

H. Candy, *Dental Metallurgy*.

R. J. P. Williams, *Dental Anesthetics*.

**Library of Medical works in College.**

**Museums.**—Anatomical, Pathological, Materia Medica.

**Post-Graduate Courses.**—Surgery for F.R.C.S. Examination, etc. Revision Courses in Clinical Medicine, Surgery, and Obstetrics.

**QUEEN CHARLOTTE'S LYING-IN HOSPITAL AND MIDWIFERY TRAINING SCHOOL,** Marylebone Road, London, N.W. (1752.)

*Sessions :* All the year round.

*Students :* Six students and post-graduates at a time.

OFFICIAL.

*Secretary.*—A. Watts.

21 Honorary Medical Officers.

**ROYAL LONDON OPHTHALMIC HOSPITAL,** City Road, E.C. 1. (1804.)

*Secretary Superintendent.*—Robert J. Bland.

PROFESSORS.

**Physicians :**

James Taylor.

Gordon M. Holmes.

**Surgeons :**

E. Treacher Collins.

W. T. Holmes Spicer.

Percy Flemming.

**Surgeons—Continued :**

J. H. Fisher.

J. H. Parsons.

Claud Worth.

Maleom L. Hepburn.

A. C. Hudson.

4 Assistant Surgeons.

**CHARING CROSS HOSPITAL MEDICAL SCHOOL,** 62-65, Chandos Street, W.C. (1819.)

*Terms :* Three a year.

*Students :* 200.

OFFICIALS.

*Dean.*—W. J. Fenton, M.D., F.R.C.P.

*Vice-Dean.*—N. C. Lake, M.D., M.S., D.Sc., F.R.C.S.

*Secretary.*—Frank Noakes.

LECTURERS.

W. W. C. Topley, *General Pathology and Morbid Anatomy.*

A. B. Rosher, *Pathological Laboratory and Morbid Histology.*

H. B. Weir, *Special Pathology and Post-Mortems.*

G. Holmes, *Neuro-Pathology and Practical Medicine.*

G. S. Wilson, *Bacteriology and Clinical Pathology.*

W. S. Fenwick, *Surgical Pathology.*

C. Lockyer, *Gynecological Pathology.*

J. M. H. MacLeod, *Pathology of the D. Forsyth, Therapeutics.* [Skin.

H. F. Morley, *Toxicology.*

W. J. R. Simpson, *Hygiene and Public Health.*

Sir J. Galloway, *General Medicine.*

W. Hunter      "      "

W. T. Fenton      "      "

G. Holmes      "      "

W. C. Bosanquet, *Clinical Medicine.*

E. D. Macnamara, *Psychological Medicine.*

Sir P. Manson, *Tropical Diseases.*

Sir J. Cantlie      "      "

W. I. Bruce, *Electrical and X-Rays.*

W. A. Brend, *Medical Jurisprudence.*

Sir H. F. Waterhouse, *General Surgery.*

Sir H. F. Waterhouse, *Clinical Surgery.*

C. Gibbs, *Clinical Surgery.*

H. S. Clogg      "      "

P. Daniel, *Operative Surgery.*

N. C. Lake, *Surgical Anatomy.*

E. B. Waggett, *Nose, Throat, and Ear.*

(Vacant), *Orthopedic Surgery.*

B. E. Potter, *Anesthetics.*

T. W. Eden, *Systematic Midwifery.*

C. Lockyer, *Diseases of Women.*

C. Lockyer, *Practical Midwifery.*

J. F. Colyer, *Dental Surgery.*

6 Tutors, 3 Demonstrators.

**Post-Graduate Courses.**—Special Post-Graduate Courses are arranged three times a year.

**Institutes and Museums.**—

- (a) An Institute of Pathology for teaching and research, with a staff of five full-time workers. Recently established in connection with this Medical School.

(b) A Museum, containing upwards of 4,000 specimens, has been specially arranged for teaching purposes. It includes over 800 Gynecological specimens, the "Cutlibert Loekyer" collection.

**Library.**—A Library, containing about 4,000 volumes, is available for the use of the students.

### AFFILIATED INSTITUTIONS.

Royal Westminster Ophthalmic Hospital.

### UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL.

#### OFFICIALS.

*Dean.*—G. Blacker.

*Vice-Dean.*—A. M. H. Gray.

*Acting Secretary.*—G. E. Adams.

#### TEACHING STAFF.

T. R. Elliott, *Director Department of Medicine.*

J. W. McNee and F. M. R. Walshe, *Assistants.*

Sir J. Rose Bradford, *Medicine.*

S. Martin, *Medicine.*

H. B. Shaw, "

F. J. Poynton, "

C. Bolton, "

T. Lewis, "

A. M. H. Gray, *Skin Diseases.*

B. Hart, *Mental Diseases.* [Surgery.]

C. C. Choyce, *Director Department of*

E. K. Martin and F. J. F. Barrington, *Assistants.*

R. Johnson, *Surgery.*

W. Trotter, "

G. Williams, "

P. Flemming, *Ophthalmic Surgery.*

J. H. Parsons, " "

H. Tilley, *Diseases of Ear, Nose, and Throat.*

G. S. Hett, *Diseases of Ear, Nose, and Throat.*

H. J. Relph, *Dentistry.*

H. J. Shirley, *Anesthetics.*

A. B. Kingsford, "

F. S. Rood, "

H. L. Tasker, "

R. W. A. Salmond, *Radiology.*

H. R. Spence, *Obstetrics.*

G. Blacker, *Obstetrics.*

A. E. Boycott, *Director Department of Pathology.*

T. W. P. Lawrence, *Morbid Anatomy.*

F. H. Teale, *Bacteriology.*

D. Embleton, "

G. W. Goodhart, *Clinical Pathology.*

F. J. Poynton, *Forensic Medicine.*

H. R. Kenwood, *Hygiene and Public Health.*

### UNIVERSITY COLLEGE HOSPITAL DENTAL SCHOOL.

Great Portland and Devonshire Streets, W. (1861.)

*Sessions:* Two per year.

#### OFFICIALS.

*Dean.*—Sidney Spokes, J.P., M.R.C.S., L.D.S.

*Clerk.*—M. P. Collings.

#### LECTURERS.

J. W. Pare, *Dental Anatomy and Physiology.*

H. J. Relph, *Dental Surgery and Pathology.*

A. E. Relph, *Operative Dental Surgery.*

S. Holloway Olver, *Dental Mechanic.*

R. E. Slade, *Dental Metallurgy.*

F. R. Smyth, *Dental Materia Medica.*

Kenneth W. Goadby, *Bacteriology of the Mouth.*

4 Demonstrators.

**KING'S COLLEGE HOSPITAL MEDICAL SCHOOL** (University of London), Denmark Hill, London, S.E. 5. (1830.)

*Terms:* Three per year.

*Students:* 160.

#### OFFICIALS.

*Chancellor.*—(Of University of London.)

*Vice-Chancellor.*—(Of University of London.)

*Dean.*—H. Willoughby Lyle, M.D., B.S., F.R.C.S.

*Secretary.*—Sidney C. Ranner, M.A.

**Degrees and Hoods.**—Medical Degrees of Universities of Cambridge, London, and Oxford.

PROFESSORS.

**Professors :**

R. H. Steen, *Psychological Medicine*.  
G. F. Still, *Diseases of Children*.  
Sir St. Clair Thomson, *Laryngology and Rhinology*.  
A. Whitfield, *Dermatology*.  
W. J. R. Simpson, *Hygiene*.

**Lecturers :**

C. W. M. Hope, *Laryngology and Rhinology*. [Medicine.  
N. Dalton, *Principles and Practice of*  
R. Crawford, *Clinical Medicine*.  
W. A. Turner, *Nervous Diseases*.  
S. A. K. Wilson „ „  
F. W. Tunnicliffe, *Clinical Medicine and Therapeutics*.  
J. C. Briscoe, *Clinical Medicine*.  
H. W. Wiltshire „ „  
A. C. D. Firth „ „  
R. S. Frew, *Diseases of Children*.  
F. F. Burghard, *Principles and Practice of Surgery*.

**Lecturers—Continued :**

Sir G. L. Cheate, *Principles and Practice of Surgery*.  
T. P. Legg, *Clinical Surgery*.  
A. Edmunds „ „  
J. W. T. Walker, *Urology*.  
J. Everidge „ „  
H. A. T. Fairbank, *Orthopedic Surgery*.  
C. J. Marshall, *Surgical Applied Anatomy and Orthopedic Surgery*.  
H. J. M. Playfair, *Obstetric and Gynecological Surgery*. [Surgery.  
W. Gilliatt, *Obstetric and Gynecological*  
L. V. Cargill, *Ophthalmic Surgery*.  
H. W. Lyle „ „  
A. H. Cheate, *Aural Surgery*.  
G. J. Jenkins „ „  
C. E. Wallis, *Dental Surgery*.  
J. F. W. Silk, *Anesthetics*.  
C. Hughes „ „  
E. Playfair „ „  
W. d'Este Emery, *Pathology*.

**Post-Graduate Courses.**—Arranged in connection with the Fellowship of Medicine.

**Museum.**—Pathological Museum.

**Library.**—Medical School Library, about 5,000 volumes. *Librarian* : S. C. Ranner, M.A.

**WESTMINSTER HOSPITAL MEDICAL SCHOOL, Westminster, S.W. 1. (1834.)**

*Sessions* : Two per year.

OFFICIALS.

*Dean*.—D. de Souza.  
*Sub-Dean*.—B. Hicks.  
*Secretary*.—S. M. Quennell.

LECTURERS.

Spencer, *Clinical Surgery*.  
Tubby „ „  
Turner „ „  
Robinson, *Clinical Gynecology*.  
Sir J. P. Stewart, *Medicine*.  
C. Jones, *Medicine*.  
D. de Souza „ „  
K. Wilson „ „  
H. Carlill „ „  
H. J. Norman, *Medicine (Mental Diseases)*.  
S. E. Dore, *Medicine (Skin Diseases)*.  
Lt.-Col. Pratt, *Medicine (Tropical Diseases)*.  
G. B. James, *Ophthalmic Surgery*.  
R. Carling, *Orthopedic Surgery*.  
De Santi, *Surgery of the Throat, Nose, and Ear*.

Glassington, *Dental Surgery*.  
V. Orr, *Anesthetics*.  
A. Evans, *Operative Surgery*.  
R. Carling, *Surgical Pathology*.  
R. Farrant, *Surgical Anatomy*.  
G. H. D. Robinson, *Midwifery and Diseases of Women*.  
S. Dodd, *Practical Midwifery*.  
J. A. B. Hicks, *General Pathology and Morbid Anatomy, Morbid Histology, Post-mortem Demonstrations, Medical Pathology*.  
J. M. Burnford, *Forsenic Medicine*.  
S. M. Copeman, *Public Health*.  
R. R. Elworthy, *Bacteriology*.  
H. W. Hake, *Chemistry*.  
Bosworth, *Physics*.  
S. Scales, *Microscopy*.

4 Demonstrators, 1 Assistant.

**Institute.**—Bland Sutton Institute of Pathology. *Director* : C. H. Browning, M.D., Ch.B., D.P.H.



**THE MIDDLESEX HOSPITAL MEDICAL SCHOOL, Mortimer Street, W. 1. (1835.)**
*Sessions : Three per year.*
*Students : 250.*
**OFFICIAL.**
*Dean.*—A. E. Webb-Johnson, C.B.E., D.S.O., F.R.C.S.

**LECTURERS.**

W. E. Wynter, *Principles and Practice of Medicine.*  
A. F. Voelker, *Principles and Practice of Medicine.*  
J. Murray, *Principles and Practice of Surgery.*  
T. H. Kellock, *Principles and Practice of Surgery.*  
C. E. Lakin, *Practical Medicine.*  
H. MacCormac, „ „  
E. A. Cockayne, „ „  
G. E. S. Ward, „ „  
C. H. Browning, *General Pathology and Bacteriology.*  
E. L. Kennaway, *Pathological Histology, Morbid Anatomy, Chemical and Clinical Pathology.*  
L. H. D. Thornton, *Pathological Histology, Morbid Anatomy, Chemical and Clinical Pathology.*  
Charles Porter, *Hygiene, Public Health, and Sanitary Law.*  
W. Sampson Handley, *Surgical Pathology.*  
A. E. Webb-Johnson, *Practical Surgery.*  
C. H. S. Webb, *Operative Surgery.*  
Comyns Berkeley, *Midwifery.*  
Victor Bonney, *Practical Midwifery.*  
A. M. Kellas, *Toxicology.*

James Chambers, *Psychiatry.*  
E. A. Cockayne, *Pharmacology and Therapeutics.*  
W. Pasteur, *Clinical Medicine.*  
W. E. Wynter, „ „  
A. F. Voelker, „ „  
R. A. Young, „ „  
Sir John Bland-Sutton, *Clinical Surgery.*  
J. Murray, *Clinical Surgery.* [gery.  
T. H. Kellock, *Clinical Surgery.*  
W. Sampson Handley, *Clinical Surgery.*  
Comyns Berkeley, *Clinical Gynecology.*  
J. J. Pringle, *Dermatology.*  
H. Campbell Thomson, *Neurology.*  
Arnold Lawson, *Ophthalmology.*  
Sommerville Hastings, *Laryngology and Otology.*  
H. Watson Turner, *Odontology.*  
Thomas Yeates, *Anatomy (Descriptive, Practical, and Regional).*  
Gordon Taylor, *Applied Anatomy.*  
J. Strickland Goodall, *Physiology (Systematics, Chemical, and Practical), Biology, Histology, and Practical Histology.*  
A. M. Kellas, *Chemistry, (Inorganic, Organic, and Practical).*  
Sidney Russ, *Physics (Theoretical and Practical).*

**ST. MARY'S HOSPITAL MEDICAL SCHOOL, Paddington. (1852.)**
*Terms : Two a year.*
*Students : 180.*
**OFFICIALS.**
*Dean.*—Sir John Broadbent, Bart., M.A., M.D., F.R.C.P.

*Secretary.*—B. E. Matthews, B.A.

**PROFESSORS.**
**Professors :**

J. E. Frazer, *Anatomy.*  
Sir Almoth Wright, *Experimental Pathology.*

**Reader :**

H. E. Roaf, *Physiology.*
**Lecturers :**

W. Harris, *Clinical Medicine.*  
J. E. Lane, *Clinical Surgery.*  
W. Harris (*Neurology*), *Medicine.*  
Sir John Broadbent, *Medicine.*  
W. H. Willeox, „ „  
V. W. Low, *Surgery.*  
W. H. Clayton-Greene, *Surgery.*  
D. C. L. Fitzwilliams, *Practical and Operative Surgery.*

**Lecturers—Continued :**

V. Z. Cope, *Practical and Operative Surgery.*  
B. H. Spilsbury, *Pathology.*  
E. H. Kettle, „ „  
J. Freeman, *Bacteriology.*  
A. Fleming, „ „  
W. H. Willeox, *Chemical Pathology.*  
T. G. Stevens, *Midwifery and Gynecology.*  
F. S. Langmead, *Pharmacology and Therapeutics.*  
W. H. Willeox, *Forensic Medicine.*  
J. E. Frazer, *Anatomy.*  
H. E. Roaf, *Physiology and Histology.*  
W. S. Denham, *Chemistry.*  
W. H. Leigh-Sharpe, *Biology.*



## LECTURERS.

J. W. Carr, *Principles and Practice of Medicine.*

A. G. Phear, *Clinical Medicine.*

W. P. S. Branson, *Clinical Medicine.*

P. W. Saunders

L. B. Aldrich-Blake (Miss), *Principles and Practice of Surgery, and Clinical*

J. Berry, *Clinical Surgery.* [Surgery.

J. Cunning „ „

C. A. Pannett „ „

C. A. Joll „ „

C. A. Pannett, *Operative Surgery.*

E. Vaughan-Sawyer (Mrs.), *Gynecology.*

Lady Barrett, *Obstetrics and Operative Midwifery.*

P. W. Saunders, *Pathology.*

H. Mackay (Miss) „

A. G. R. Foulerton, *Hygiene and Public Health.*

M. L. Hepburn, *Diseases of the Eye.*

J. G. French, *Diseases of the Nose, Throat, and Ear.*

J. G. P. Phillips, *Mental Pathology.*

C. W. Daniels, *Tropical Medicine.*

M. D. Berry (Mrs.), *Anesthetics.*

B. Sprott (Mrs.) „

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L. F. Harwood (Mrs.), *Dentistry.*

M. F. L. Keene (Mrs.), *Anatomy.*

W. Cullis (Miss), *Physiology.*

E. Hewer (Miss) „

M. Bond (Miss) „

F. Ransom, *Pharmacology.* [macy.

M. Buchanan (Miss), *Practical Phar-*

J. A. Gardner, *Chemistry.*

S. T. Widdows (Miss), *Chemistry.*

M. D. Waller (Miss), *Physics.*

G. P. Mudge, *Biology.*

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18 Demonstrators, 3 Tutors.

**Post-Graduate Courses.**—Post-Graduate Course of Instruction in the Treatment of Venereal Diseases, May and September. Post-Graduate Course in Operative Surgery, May.

**Library.**—Medical Library containing 4,500 volumes. *Librarian* : Margaret Reed.

**Museums.**—

Materia Medica Museum.

Pathological Museum.

*Curator* : Margaret R. Abel.

**ROYAL DENTAL HOSPITAL OF LONDON, Leicester Square, W.C. 2.**

*Sessions* : Two per year.

## OFFICIALS.

*Dean.*—W. H. Dolamore, L.R.C.P., M.R.C.S., L.D.S.

*Treasurer.*—R. McKay.

## LECTURERS.

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D. Gabell, *Dental Mechanics.*

H. W. M. Tims, *Dental Anatomy.*

J. G. Turner, *Dental Surgery.*

F. Coleman, *Materia Medica.*

W. W. James, *Operative Dental Surgery.*

H. Hilliard, *Anesthetics.*

1 Tutor, 4 Clinical Assistants, 9 Demonstrators.

**THE LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Garden, Chelsea Bridge Road, S.W. (1890.)**

## OFFICERS.

*Chairman of the Governing Body.*—Major-General Sir David Bruce, K.C.B., M.D., F.R.S.

*Director of the Scientific Staff.*—Dr. Charles J. Martin, M.B., D.Sc., F.R.S.

*Assistant Secretary.*—G. Cooper.

**Objects.**—(1) To investigate the means of preventing and curing the various diseases of men and animals, and to provide a place where researches may be carried on for this purpose.

(2) To provide instruction in methods of research in preventive medicine to medical officers of health, medical practitioners, veterinary surgeons, and advanced students.

(3) To prepare and to supply to those requiring them such special, protective, and curative materials, as have already been found, or shall in future be found, of value.

**Publications.**—A large number of scientific papers are published annually.

**THE ROYAL INSTITUTE OF PUBLIC HEALTH, 37, Russell Square, London, W.C.**  
(1886.)

OFFICIALS.

*Patron.*—His Majesty King George V.

*Vice-Patron.*—H.R.H. The Prince of Wales.

*Patroness.*—Her Majesty the Queen.

*President.*—The Right Hon. The Lord Leverhulme.

*Principal.*—Professor Sir William R. Smith, M.D., D.Sc., LL.D., F.R.S.Ed.

*Hon. Treasurer.*—John Blair MacAfee, LL.B.

*Hon. Secretaries.*—Professor E. D. Hope, M.D., D.Sc. T. N. Kelynaek, M.D., M.R.C.P.

The Institute was founded to provide the advantages of a powerful body for promoting the interests of those engaged in Official Public Health work at home and abroad, or in the Public Services, and also to aid the Theoretical and Practical investigation and study of all branches of Public Health Medicine. In pursuance of these objects the Council have established fully equipped Bacteriological, Serological, and Chemical Laboratories.

**LONDON SCHOOL OF TROPICAL MEDICINE, Endsleigh Gardens, N.W.2. (1899.)**

The School arranges and equips Research Expeditions which have been carried out in Asia, East and West Africa, Central Africa, W. Indies, etc., etc.

*Sessions :* Three annually.

*Students :* 2,016 Post-Graduates, since foundation.

OFFICIALS.

*Dean.*—Sir R. Havelock Charles, G.C.V.O.

*Secretary.*—P. J. Michelli, Esq., C.M.G.

**Degrees conferred.**—A Certificate is granted by the School after examination, and the course is so arranged as to equip students for the Diploma of Tropical Medicine and Hygiene, Cambridge (D.T.M. & H.), and for the Diploma in the Diseases and Hygiene of the Tropics (D.T.M.Eng.).

LECTURERS.

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C. W. Daniels.

G. C. Low.

Sir J. Cantlie, K.B.E.

A. Castellani, C.M.G.

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R. T. Hewlett.

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L. W. Sambon.

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T. H. Vaughan.

G. C. Low, *Pathologist.*

Col. A. Alcock, C.I.E., *Director of Entomology.*

F. W. O'Connor, *Assistant Medical Entomologist.*

J. G. Thomson, *Director of Protozoology.*

Professor R. T. Leiper, *Director of Helminthology.*

H. B. Newham, C.M.G., *Director of Tropical Pathology.*

**IMPERIAL CANCER RESEARCH FUND, EXAMINATION HALL,**

8-11, Queen Square, Bloomsbury, W.C. 1. (1902.)

OFFICERS.

*President.*—The Duke of Bedford, K.G., K.B.E.

*Director.*—J. A. Murray, M.D.

*Secretary.*—F. G. Hallett, O.B.E.

### NAVAL MEDICAL SCHOOL OF THE ROYAL NAVAL COLLEGE, Greenwich. (1912.)

The accommodation includes all the necessary rooms and apparatus for the study and teaching of General and Naval Hygiene, Clinical Pathology, Tropical Medicine, and Micro-Biology. It is associated with the Seamen's Hospital, where wards are set apart for cases of tropical diseases under the care of the Professor of Pathology, and from which clinical lectures are given as requisite. The average number of students is 80 per annum. The school being only for officers of the Royal Navy, educational activities ceased with the outbreak of war, but will shortly be resumed.

#### STAFF.

Surgeon-Capt. P. W. Bassett-Smith, *Clinical Pathology*.  
R. C. Frederick, *Hygiene*.

### ROYAL SANITARY INSTITUTE, Parkes Museum, 90, Buckingham Palace Road, S.W. (1876.)

**Objects.**—To promote the advancement of Sanitary Science in all or any of its branches, and to diffuse knowledge relating thereto.

*Director and Secretary.*—E. White Wallis, F.S.S.

Parkes Museum contains collections of appliances relating to health and comfort. (Free to the public.)

**Library** of standard works on Sanitary Science, and a collection of Reports of Medical Officers of Health over the whole country.

**Publication.**—Journal (bi-monthly).

### ROYAL COLLEGE OF VETERINARY SURGEONS, 10, Red Lion Square, W.C. 1.

#### OFFICIALS.

*President.*—J. McKinna, F.R.C.V.S.

*Secretary and Registrar.*—F. Bullock, F.C.I.S.

### THE BRITISH MUSEUM, Bloomsbury, W.C. 1. (1753.)

#### OFFICIALS.

*Director and Principal Librarian.*—Sir Frederic George Kenyon, K.C.B., P.B.A. Litt.D.

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*Clerk in Charge of Accounts.*—C. P. Cooke.

*Assistant (1st Class).*—E. B. Nicholson.

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*Superintendent of Reading Room.*—F. D. Sladen.

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J. V. Scholderer, F. C. W. Hiley, A. F. Johnson, A. I. Ellis, F. P. Sprent.

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*Assistant Keeper of MSS.*—J. A. Herbert.

*Assistants (1st Class).*—A. Hughes-Hughes, D. T. Baird Wood, H. Idris Bell, R. E. W. Flower.

*Assistants (2nd Class).*—G. T. Hales, H. J. M. Milne, E. G. Millar, A. J. Collins.

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*Assistants (2nd Class).*—A. S. Fulton, J. Leveen.

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*Assistant Keeper of Prints and Drawings (in charge of the Sup.-Dept. Oriental Prints, etc.).*—R. Laurence Binyon.



*Assistant (1st Class).*—A. M. Hind, O.B.E.  
*Assistants (2nd Class).*—A. E. Popham, A. D. Waley, H. M. Hake.  
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*Assistant Keeper.*—H. R. H. Hall, M.B.E.  
*Assistants (2nd Class).*—S. Smith, C. J. Gadd.  
*Keeper of Greek and Roman Antiquities.*—Arthur H. Smith.  
*Assistant Keeper.*—H. B. Walters.  
*Assistant (1st Class).*—E. J. Forsdyke.  
*Assistant (2nd Class).*—F. N. Pryce.  
*Keeper of British and Medieval Antiquities and Ethnography.*—Sir Hercules Read, B.A.  
*Assistant Keeper of British and Medieval Antiquities and Ethnography.*—O. M. Dalton.  
*Assistants (1st Class).*—R. L. Hobson, R. A. Smith, T. A. Joyce, O.B.E.  
*Assistants (2nd Class).*—H. J. Braunholtz, A. B. Tonnochy.  
*Keeper of Coins and Medals.*—G. F. Hill, F.B.A.  
*Assistants (1st Class).*—John Allan, G. C. Brooke.  
*Assistants (2nd Class).*—Harold Mattingly, E. S. G. Robinson.

**BRITISH MUSEUM (NATURAL HISTORY),** Cromwell Road, London, S.W. 7.  
 Branch of the British Museum.

Open daily, and on Sunday afternoons. Closed on Good Friday and Christmas Day.

*Budget (1919-20):* Estimate, £67,540.

**ADMINISTRATIVE STAFF.**

*Director.*—Sir Sidney F. Harmer, Sc.D., F.R.S.  
*Secretary.*—Charles E. Fagan, I.S.O.  
*Assistant (1st Class).*—Basil H. Soulsby.  
 3 Clerks.

**SCIENTIFIC STAFF.**

**Zoology :**

*Director and Keeper.*—Sir Sidney F. Harmer.  
*Assistant Keeper.*—C. Tate Regan.  
*Assistants (1st Class).*—G. A. Boulenger, Oldfield Thomas, R. Kirkpatrick, W. T. Calman, W. P. Pyeraft, A. S. Hirst, J. G. Dollman, Percy R. Lowe.  
*Assistants (2nd Class).*—G. C. Robson, C. C. Treatt, H. A. Baylis, A. J. Totton, M.C.

**Entomology :**

*Keeper.*—C. J. Gahan.  
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*Assistants (2nd Class).*—F. W. Edwards, K. G. Blair, N. D. Riley, F. Laing.

**Geology :**

*Keeper.*—A. S. Woodward.  
*Assistant Keeper.*—F. A. Bather.  
*Assistants (1st Class).*—R. B. Newton, C. W. Andrews, W. D. Lang.  
*Assistants (2nd Class).*—W. N. Edwards.

**Mineralogy :**

*Keeper.*—G. T. Prior.  
*Assistants (1st Class).*—L. J. Spence, G. F. Herbert-Smith.  
*Assistant (2nd Class).*—W. C. Smith.

**Botany :**

*Keeper.*—A. B. Rendle.  
*Assistants (1st Class).*—A. Gepp, E. G. Baker.  
*Assistants (2nd Class).*—H. F. Wernham, J. Ramsbottom, O.B.E., A. J. Wilmott.  
 18 Temporary Assistants.

**Library** of 104,000 volumes. *Assistant (1st Class) :* B. B. Woodward.

**VICTORIA AND ALBERT MUSEUM, South Kensington, S.W. 7.**

The Museum is a museum of Applied Art, and was founded in 1852 with a view to the improvement of such manufactures and crafts as are associated with decorative design by the exhibition of specimens illustrative of the processes and taste which have governed the arts and crafts of past ages. In addition to the works of art exhibited in the main collections, the Museum also includes collections of objects and paintings, which are available for loan to Provincial Museums and Schools of Art; these form the department known as "Circulation." Under the control of the Board of Education. Open free every week-day, and part of every Sunday.

Eight departments in addition to the Indian Section (comprising objects illustrative of the arts and crafts of India, Burma, and the Far East other than China and Japan) and the Bethnal Green Branch Museum (see below): viz., Architecture and Sculpture; Ceramics (including Enamels and Glass); Engraving, Illustration, and Design; Library (see below); Metalwork; Paintings; Textiles; Woodwork; Circulation (see above).

**OFFICERS.**

*Director and Secretary.*—Sir Cecil Harcourt Smith, C.V.O., LL.D.

*Secretary to the Advisory Council.*—H. A. Kennedy.

*Secretary of Circulation Collections.*—J. Bailey.

*Keepers.*—

W. W. Watts.

Captain G. H. Palmer.

*Assistant Keepers.*—

T. A. Leffeldt.

Captain C. H. Wyld.

R. F. Martin.

T. C. Grove.

P. G. Trendell.

H. P. Mitchell.

A. F. Kendrick.

Lieut.-Col. E. F. Strange, C.B.E.

E. R. D. MacLagan, C.B.E.

C. S. Clarke.

A. Van de Put.

B. Rackham.

Captain M. Hardie.

21 Assistants, 2 Technical Assistants.

**Libraries.**—The Library proper comprises about 140,000 volumes principally dealing with the arts; and it also includes a collection of about 234,000 photographs intended for the use of students and designers. It is a Reference Library only. Admission by ticket; application for which should be made to the Director and Secretary.

In addition to the main Library, the Libraries bequeathed by the Rev. Alexander Dyce (1869) and Mr. John Forster (1876) are available for reference by readers. These together represent about 35,000 volumes. The Dyce Library is particularly rich in editions of classical authors and in English dramatic literature; the Forster Library consists mainly of works of English literature down to about the year 1876; 3,400 engravings and drawings are also included in these Libraries.

The Bethnal Green Branch Museum contains collections of artistic and scientific interest including an important group of paintings in water-colour and in oil, bequeathed to this Museum by Joshua Dixon.

**IMPERIAL INSTITUTE, South Kensington, S.W. 7.**

The National Memorial of the Jubilee of Queen Victoria.

**OFFICIALS.**

*Director.*—Wyndham R. Dunstan, C.M.G., LL.D., F.R.S.

*Assistant Secretary to the Director.*—A. J. Hedgeland, M.A.

The Institute comprises Exhibition Galleries containing collections illustrative of the raw materials obtainable from the various countries of the British Empire. A Scientific and Technical Department, equipped with extensive laboratories and sample rooms, for conducting investigations. A Technical Information Bureau. A Reference Library, Reading and Map Rooms.

**SCIENTIFIC AND TECHNICAL RESEARCH DEPARTMENT.**

*Superintendents.*—H. Brown, E. Goulding.

*Assistant Superintendents.*—T. Crook, R. G. Pelly, S. J. Johnstone.

*Principal Assistant.*—J. R. Furlong.

*Senior Technical Superintendent.*—S. E. Chandler.

**THE HORNIMAN MUSEUM AND LIBRARY**, Forest Hill, London, S.E. (1890.)  
Open daily (Tuesdays and Christmas Day excepted).

**OFFICIALS.**

*Curator*.—H. S. Harrison, D.Sc., F.R.A.I.

*Zoologist*.—H. N. Milligan, F.Z.S.

*Librarian*.—A. W. Pepper.

**Libraries**.—Free Public Reference Library of 5,500 volumes attached to the Museum.

**ROYAL OBSERVATORY**, Greenwich. (1675.)

Administrative expenses, £10,500 annually.

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*Chief Assistants*.—J. Jackson, H. S. Jones.

*Assistants*.—H. P. Hollis, Andrew C. D. Crommelin, W. W. Bryant (Magnetic and Meteorological), C. R. Davidson, W. Bowyer.

*Junior Assistants*.—H. Furner (Higher Grade), W. M. Mitchell, P. J. Melotte, W. Sturms, R. T. Cullen, H. Acton, F. Jeffries, H. W. Newton.

*Clerical Assistant*.—D. J. R. Edney.

**THE GOVERNMENT CHEMIST.**

(Government Laboratory.)

13, Clement's Inn Passage, W.C. 2, and Custom House, Lower Thames Street, E.C. 3.

*Government Chemist*.—Professor Sir James Johnston Dobbie, M.A., D.Sc., LL.D., F.R.S.

*Deputy Government Chemist*.—J. Connah.

*Superintendent Analysts*.—G. Stubbs, E. Jones, J. H. Robbins, T. J. Cheater, C. Simmonds.

*Analysts (1st Class)*.—D. A. Gracey, J. F. Halpin, J. Fox, R. Rodgers, J. Holmes, A. More, T. H. Bowles, P. J. Sageman, W. Williamson.

*Analysts (2nd Class)*.—A. E. Middleton, G. F. Sheppard, J. Carmichael, A. G. Francis, F. G. H. Tate, A. H. Gauge, F. S. Aumonier, T. W. Harrison, F. S. Thurston, J. R. Nicholls, C. D. Barber, C. A. Adams, J. E. Byles, F. R. Ennos, J. Kirk, F. B. Burls.

**METEOROLOGICAL OFFICE**, Air Ministry, Kingsway, W.C. 2.

*President of Committee*.—Major-General Sir F. H. Sykes, K.C.B., C.M.G. (Member of Air Council, Controller General of Civil Aviation).

*Director of Meteorological Office and Chairman of Committee*.—Sir Napier Shaw, LL.D., Sc.D., F.R.S.

*Assistant Directors*.—Dr. C. Chree, F.R.S., Kew Observatory; R. G. K. Lempfert, C.B.E., M.A. (for Contributing Stations); Lieut.-Col. E. Gold, D.S.O., F.R.S., in charge of Forecasting.

**Head-Quarters, Air Ministry, Kingsway, W.C. 2.**

*Superintendent of Marine Division*.—Commr. L. A. Brooke-Smith.

*Superintendent of Forecasting*.—J. S. Dines.

*Superintendent of Air Stations*.—(Vacant.)

*Superintendent of Meteorological Services for the Army*.—Captain D. Brunt.

*Chief Clerk*.—H. L. B. Tarrant.

**Climatology and Instruments Divisions**, Exhibition Road, South Kensington, S.W. 7.

*Superintendent of Statistics*.—F. J. W. Whipple.

*Superintendent of Instruments*.—R. Corless.

*Secretary of Advisory Committee on Atmospheric Pollution*.—J. S. Owens.

*Chief Clerk*.—T. Duncan Bell.

**British Rainfall Organization**, 62, Camden Square, N.W. 1.

*Superintendent*.—M. de C. Salter.

Office in Edinburgh, 122, George Street.

*Superintendent.*—A. Watt.

### Superintendents of Observatories.

Central (Kew) Observatory, Richmond: C. Chree.  
Magnetic Observatory, Eskdalemuir: A. Crichton Mitchell.  
Western Observatory, Valencia, Co. Kerry: L. H. G. Dines.  
Aerological Observatory, Benson, Oxon.: W. H. Dines.  
North Sea Observatory, Aberdeen: C. Niven.

### H.M. NAUTICAL ALMANAC OFFICE, 8, Lee Road, S.E. 3.

The first Nautical Almanac—that for 1767—was published by the Board of Longitude on the recommendation of Maskelyne, Astronomer Royal. The Almanac, which is now under the control of the Board of Admiralty, was much enlarged in 1834, and an abridged edition for navigators has been issued annually since 1896. The estimated annual expense of the Almanac is £3,546.

### OFFICIALS.

*Superintendent.*—P. H. Cowell, D.Sc., F.R.S.

*Chief Assistant.*—B. F. Bawtree.

*Assistants.*—J. A. Sprigge, W. F. Doak, M.A., and T. C. Hudson, B.A.

### IMPERIAL BUREAU OF ENTOMOLOGY.

Head Offices: British Museum (Natural History), Cromwell Road, S.W. 7.

Publication Offices: 88-89, Queen's Gate, S.W. 7.

Originally founded in 1909 by the Secretary of State for the Colonies, to deal with entomological problems in Tropical Africa under the title of the Entomological Research Committee (Tropical Africa); enlarged in 1913 so as to include the whole British Empire in its scope, and the title was then altered to Imperial Bureau of Entomology.

Its objects are: The collection and dissemination of information concerning insects either as affecting cultivated plants or as carriers of disease; the identification of any injurious insects submitted by Government Entomologists, Medical and Veterinary officers, etc., in all parts of the British Empire, and the rendering of any other practical assistance that may be possible to Government Entomologists for the carrying on of their work.

### OFFICIALS.

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*Assistant Director.*—Sheffield A. Neave, M.A., D.Sc.

*General Secretary.*—Capt. A. C. C. Parkinson (Colonial Office).

Hon. Managing Committee of 24 members excluding ex-officio members.

### Publications.—

*Bulletin of Entomological Research* (quarterly).

*Review of Applied Entomology* (monthly), in two series: Series A (Agricultural) and Series B (Medical and Veterinary).

### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH,

16-18, Old Queen Street, Westminster, S.W. 1.

The Committee of the Privy Council for Scientific and Industrial Research was appointed by Order in Council dated July 28, 1915, to direct, subject to such conditions as the Treasury may from time to time prescribe, the application of any sums of money provided by Parliament for the organization and development of Scientific and Industrial Research. The order in Council also appointed an Advisory Council to whom all proposals for researches stand referred. By Charter dated November 23, 1916, the official members of the Committee of the Privy Council were created a Body Corporate under the name of "The Imperial Trust for the Encouragement of Scientific and Industrial Research," to hold and dispose of money and other property for the purposes of the Committee. On December 15, 1916, a separate Department, having its own Parliamentary Vote, was created for the service of the Committee.



*President of the Committee of the Privy Council.*—The Lord President of the Council (the Right Hon. Arthur J. Balfour, O.M., F.R.S., M.P.).

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### GEOLOGICAL SURVEY OF GREAT BRITAIN AND MUSEUM OF PRACTICAL GEOLOGY, 28, Jermyn Street, London, S.W. 1.

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The Geological Survey and Museum was commenced in 1832; it was under the Science and Art Department from 1853 till 1900 when that Department became merged in the Board of Education. On November 1, 1919, the administrative control of the Survey and Museum was transferred to the Committee of the Privy Council for Scientific and Industrial Research.

The normal work of the Survey includes the preparation of geological maps and memoirs dealing with the general survey of the country and with various economic aspects of that survey.

The Museum of Practical Geology conserves and exhibits rocks, minerals, and fossils, which afford evidence for the published records of the survey or illustrate that survey. It is also a function of the Museum to exhibit economic minerals from all parts of the world.

#### GEOLOGICAL SURVEY.

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*Geologists.*—C. B. Wedd, E. E. L. Dixon, E. M. Anderson,\* H. Dewey, R. L. Sherlock, B. Smith, G. W. Lee,\* C. E. N. Bromehead, C. H. Dinham,\* J. E. Richey,\* T. Eastwood, G. V. Wilson,\* R. W. Pocock, W. B. R. King, D. A. Wray, H. H. Read,\* T. H. Whitehead.

*Assistant Paleontologist.*—J. Pringle.

*Superintendents of Maps.*—R. Lunn,\* H. W. G. Williams.

1 Clerk, 1 Assistant Clerk.

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The Public Record Office contains the accumulated papers of the Courts of Law and Government Departments, which are of sufficient value to be preserved permanently, but are no longer in current use.

The most ancient official document in the Office is Domesday Book, which is exhibited in a museum (open 2 to 4 p.m. Mondays to Fridays inclusive), with other objects of interest.

The Public Search Rooms are open daily from 10 to 4.30 (Saturdays 10 to 2).

Students wishing to consult the less confidential documents may obtain readers' tickets on furnishing credentials. Foreign students must be introduced through the Foreign Office on the recommendation of the Diplomatic Representatives of their own country. To consult modern State Papers special permission is necessary from the Department of State concerned. For the inspection of legal records fees are charged.

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**INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE,**  
Central Bureau, 34-35, Southampton Street, Strand, W.C. 2. (1900.)

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**Publications.**—Seventeen volumes in each annual issue, indexing the different branches of science.

**THE ROYAL SOCIETY,** Burlington House, Piccadilly, W. 1. (1662.)

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**Publications.**—

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Proceedings, Series A and B.

**SOCIETY OF ANTIQUARIES OF LONDON,** Burlington House, Piccadilly, W. 1.

A Society of Antiquaries was founded in London by Archbishop Parker in 1572. This body was dissolved by King James I., but appears to have continued informally for some time afterwards.

In 1707 Humphrey Wanley refounded this Society, and in 1717 it was formally reconstituted as the Society of Antiquaries of London, receiving its charter from King George II. in 1751.

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**Publications.**—

Archeologia.

Proceedings.

Reports of the Research Committee.

Vetusta Monumenta.

**THE LAW SOCIETY,** Law Society's Hall, Chancery Lane, W.C. 2. (1739.)

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The Society is a voluntary association of Solicitors for their mutual protection and benefit, regulated by charters and bye-laws. The Society also performs the duties of Registrar of Solicitors, has the custody of the Roll of Solicitors, conducts the examination of Articled Clerks, deals, subject to appeal, with all applications for admission and for renewal of practising certificates and regulates proceedings against unqualified persons.

**Publication.**—Gazette (monthly).

**ROYAL SOCIETY FOR THE ENCOURAGEMENT OF ARTS, MANUFACTURES, AND COMMERCE**, John Street, Adelphi, London, W.C. 2. (1754.)

**Objects of the Society.**—The Encouragement of the Arts, Manufactures, and Commerce of the Country, by bestowing rewards for such productions, inventions, or improvements as tend to the employment of the poor, to the increase of trade, and to the riches and honour of the kingdom; and for meritorious works in the various departments of the Fine Arts; for Discoveries, Inventions, and Improvements in Agriculture, Chemistry, Mechanics, Manufactures, and other useful arts; for the application of such natural and artificial products, whether of Home, Colonial, or Foreign growth and manufacture, as may appear likely to afford fresh objects of industry, and to increase the trade of the realm by extending the sphere of British commerce; and generally to assist in the advancement, development, and practical application of every department of science in connection with the Arts, Manufactures, and Commerce of this country. At the meetings, held weekly during the session, papers on subjects relating to inventions, improvements, discoveries, and other matters connected with the Arts, Manufactures, and Commerce of the country are read and discussed; at the meetings of the Indian and Colonial Sections subjects connected with our Indian Empire in the Colonies and dependencies are considered; lectures on technical subjects are delivered under the Cantor and other trusts.

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*Secretary (Indian and Colonial Sections).*—S. Digby, C.I.E.

*Accountant and Examinations Officer.*—J. H. Buchanan.

**Publication.**—Journal of the Royal Society of Arts (weekly).

**LINNEAN SOCIETY OF LONDON**, Burlington House, Piccadilly, W. 1. (1788.)

**OFFICIALS.**

*President.*—Dr. A. Smith Woodward, F.R.S.

*Treasurer.*—H. W. Monckton, F.G.S.

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**Library.**—40,000 volumes. *Acting Librarian* : W. S. Warton.

**Publications.**—

Transactions (since 1791).

Journals (since 1856.)

Proceedings (since 1838).

List of the Society (since 1789).

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This Laboratory was founded by the late Dr. Ludwig Mond, D.Sc., F.R.S., as a Memorial of Davy and Faraday, for the purpose of promoting by original research the development and extension of Chemical and Physical Science.

**GEOLOGICAL SOCIETY OF LONDON**, Burlington House, Piccadilly, W. 1. (1807.)

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Library contains 35,000 books. *Librarian*: A. Greig. *Clerk*: M. St. J. Hope.

**Publications.**—

The Quarterly Journal (quarterly).

Geological Literature.

**ROYAL ASTRONOMICAL SOCIETY**, Burlington House, Piccadilly, W. 1. (1820.)

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**Publications.**—During past year Monthly Notices, vol. 79.

**BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE**, Burlington House, Piccadilly, W. 1. (1831.)

The objects of the Association are "To give a stronger impulse and a more systematic direction to scientific enquiry; to promote the intercourse of those who cultivate Science in different parts of the British Empire with one another and with foreign philosophers; to obtain more general attention for the objects of Science and the removal of any disadvantages of a public kind which impede its progress."

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The Annual Meeting, held in one of the great provincial centres of Britain or overseas, usually lasts for eight days.

**ROYAL ASIATIC SOCIETY, 74, Grosvenor Street, W. (1823.)**

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**Publications.—**

The Journal (published quarterly), 12s. per number, or 30s. Subscriptions in advance (free to members).  
 Oriental Translations Fund. Vols. I. to XXIV.  
 Asiatic Society Monographs. Vols. I. to XVI.  
 Prize Publications Fund. Vols. I. to IV.

**THE ZOOLOGICAL SOCIETY OF LONDON, Regent's Park, N.W. 8. (1826.)**

**OFFICIALS.**

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**Publications.—**

Proceedings of the Zoological Society of London, 8 vols.  
 Transactions of the Zoological Society of London.  
 The Zoological Record (annual volume).

**ROYAL GEOGRAPHICAL SOCIETY, Lowther Lodge, Kensington Gore, S.W. 7.**  
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**Publications.**—The Geographical Journal (monthly), and special publications from time to time.



**BRITISH MEDICAL ASSOCIATION, 429, Strand, W.C. 2. (1832.)**

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**THE ROYAL STATISTICAL SOCIETY, 9, Adelphi Terrace, Strand, W.C. 2. (1834.)**

**Objects.**—Its objects are the collection, discussion, and publication of facts dealing with the complex relations of modern Society in its social, economical, and political aspects, and especially facts which can be stated numerically and arranged in tables.

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The **Library** consists of about 50,000 volumes and is unique of its kind.

**Publications.**—Journal (annual).

**THE ROYAL NUMISMATIC SOCIETY, 22, Russell Square, W.C. (1836.)**

*Patron.*—His Majesty the King.

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**Publication.**—Numismatic Chronicle (quarterly).

# ROYAL AGRICULTURAL SOCIETY OF ENGLAND, 16, Bedford Square, W.C. 1.

Founded 1838, as the "English Agricultural Society."

*Patron.*—His Majesty the King.

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**Library.**—This contains about 13,000 books and 2,000 pamphlets. It has recently been rearranged and a printed catalogue prepared.

**Examinations.**—In conjunction with the Highland and Agricultural Society of Scotland the Royal Agricultural Society of England has instituted Annual Examinations for the award of National Diplomas in the Science and Practice of Agriculture and of Dairying. The N.D.A. Examination is held in April, and that for the N.D.D. in September.

**Consulting Officers.**—The Society's Scientific Departments, for the use of Members, are under the control of Dr. J. Augustus Voeleker, M.A., F.I.C. (Consulting Chemist), Professor R. H. Biffen, F.R.S. (Botanist), and Mr. Cecil Warburton, M.A. (Zoologist). The Consulting Veterinary Surgeon is Professor Sir John McFadyean, Principal of the Royal Veterinary College. An annual grant is made to the College, in return for which the Society's Members are entitled to privileges in connection with veterinary matters.

By arrangement with the Dairy Research Institute, University College, Reading, the staff of the Institute undertake special researches in dairy problems for members of the Society.

**The Experimental Farm and Pot Culture Station**, at Woburn, Bedfordshire, is controlled by the Society. Here investigations are conducted with regard to crops, soils, feeding stuffs, and other agricultural matters. The Director of the Station is Dr. J. A. Voeleker.

**The 79th Annual Show of Live Stock, Machinery, Implements, etc.**, will be held at Darlington from June 29 to July 3, 1920.

**Trials of Agriculture Tractors and Ploughs** will be held in the autumn of 1920.

## Publications.—

Annual Journal.

Text Book "Elements of Agriculture" (now in its 51st thousand), and numerous pamphlets.

Farm Account Books.

Diagrams of Insect Pests, etc.

# ROYAL BOTANIC SOCIETY OF LONDON, Royal Botanic Gardens, Regent's Park. (1839.)

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The Gardens of the Society in the Inner Circle, Regent's Park, 18 acres in extent, afford a good example of English landscape gardening, and having been laid out as a botanic garden, most of the trees and shrubs are of botanical or horticultural interest. It is a well-known centre of botanical study, possessing collections of tropical, economic, and medicinal plants; a students' garden with the plants arranged in beds according to their natural orders; a meteorological observatory, museum, and lecture-room where botanical lectures are given, and a botanical library. In the large conservatory and smaller greenhouses are many palms and ornamental plants. There is also a special hothouse with a large tank, where the Victoria water-lily—*Nelumbium*—and other water plants are successfully grown.

**Publication.**—Quarterly Summary.

**THE ROYAL MICROSCOPICAL SOCIETY, 20, Hanover Square, W. 1. (1839.)**

**Objects.**—Promotion of Microscopical and Biological Science by the communication, discussion, and publication of observations and discoveries relating to (1) Improvements in the construction and mode of application of the Microscope, and (2) Biological or other subjects of Microscopical Research.

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**Publications.**—The Journal of the Royal Microscopical Society (quarterly).

**THE CHEMICAL SOCIETY, Burlington House, Piccadilly, W. 1. (1841.)**

The object of the Society is the general advancement of Chemical Science by the discussion and publication of new discoveries and the interchange of valuable information respecting them.

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**Publications.—**

Memoirs and Proceedings, 1841-1847 (3 vols.).  
 Quarterly Journal, 1848-1862 (14 vols.).  
 Quarterly Journal, 1848-1862 (single parts).  
 Journal, 1862-1895.  
 Journal, 1862-1895 (single parts).  
 Journal, 1896-1914.  
 Journal, 1896-1914 (single parts).  
 Journal and Proceedings, 1915 (onwards).  
 Journal and Proceedings, 1915 (single parts).  
 Proceedings, 1885-1914.  
 Proceedings, 1885-1914 (single parts).  
 Annual Reports on the Progress of Chemistry, Vol. I. (1904) to present date.  
 Collective Index, Vol. I., 1841-1872.  
 Collective Index, Vol. II., 1873-1882.  
 Collective Index, Vol. III., 1883-1892.  
 Collective Index, Vol. IV., 1893-1902.  
 Collective Index, Vol. V., 1903-1912.  
 Jubilee Volume IX giving history of the Chemical Society from 1841-1891.  
 Memorial Lectures, 1893-1900 (out of print).  
 Memorial Lectures, Vol. II., 1901-1913.  
 Library Catalogue, 1886.  
 Library Catalogue, 1903.

**ROYAL ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,**  
 50, Great Russell Street, W.C. 1.

In 1843 the Ethnological Society was founded, in 1863 the Anthropological Society was founded; and in 1871 the two Societies were united as the Anthropological Institute. Title changed to Royal, 1907.

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*Hon. Secretary.*—H. G. Harrison, D.Sc.

*Assistant Secretary.*—E. W. Martindell, M.A.

**Publications.—**

Journal, Vol. XLIX., Parts 1 and 2. Vol. XLVIII., Part 2. Vol. XLIX., Part 1.

Man (a Journal of Anthropological Science), issued monthly.

**ROYAL ARCHEOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,**  
 19, Bloomsbury Square, London, W.C. (1843.)

**Objects.**—The encouragement of intelligent research into British antiquities, and of vigilant care for their preservation.

*Patron.*—His Most Gracious Majesty the King.

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**Publication.**—The Archeological Journal (quarterly).

**RAY SOCIETY.** (1844.)

For the Publication of Works on Natural History.

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*Treasurer.*—S. F. Harmer, Sc.D., F.R.S., F.L.S., F.Z.S.

The object of the Society is to produce for its subscribers such works on Natural History, especially that of the British Isles, as from the expense of their illustration or other causes could not profitably be brought out by a publisher.

Amongst the distinguished naturalists who have contributed monographs to the Society may be mentioned Allman, Bowerbank, Carpenter, Darwin, Flower, Forbes, Günther, Huxley, the late President Lord Avebury, and the present President Professor M'Intosh.

**ROYAL METEOROLOGICAL SOCIETY,**

70, Victoria Street, Westminster, S.W. 1. (1850.)

**OFFICERS.**

*President.*—R. H. Hooker, M.A.

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Walter William Bryant, B.A., F.R.A.S.; J. Somers Dines, M.A.

*Assistant Secretary.*—A. Hampton Brown, 70, Victoria St., Westminster, S.W. 1.

**Publications.**—

The Quarterly Journal.

Hints to Meteorological Observers.

Some Facts about the Weather.

Forms of Clouds.

**BRITISH ORNITHOLOGISTS' UNION,** c/o Chief Police Office, West India Dock, E. 14.  
(1858.)

**Objects.**—The advancement of the Science of Ornithology.

**OFFICIALS.**

*President.*—W. E. Clark, LL.D., F.L.S.

*Editor.*—W. L. Selater, M.A., F.Z.S.

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H. E. Howard, F.Z.S.

G. M. Mathews, F.Z.S.

J. H. Elwes, F.R.S.

**Publication.**—Ibis (quarterly).

**THE LONDON MATHEMATICAL SOCIETY,** Burlington House, Piccadilly, W. 1.  
(1865.)

Founded to further the promotion and extension of Mathematical knowledge.

**OFFICERS.**

*President.*—J. E. Campbell, M.A., F.R.S.

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**Publication.**—Proceedings of the London Mathematical Society (four or five times annually).



**ROYAL HISTORICAL SOCIETY**, 22, Russell Square, W.C. 1. (1868.)

*Patron.*—H.M. the King.

#### OFFICIALS.

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*Hon. Treasurer.*—H. R. Tedder.

*Hon. Secretary.*—H. E. Malden, M.A.

*Assistant Secretary and Librarian.*—Miss M. B. Curran.

#### Publications.—

Transactions (annual).

The Camden Series (about two a year).

**THE SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS**, Burlington House, Piccadilly, W. 1. (1874.)

The objects of the Society are to cultivate the study of Analytical Chemistry by holding periodical meetings, and by the publication of a journal devoted mainly to Analytical Chemistry; to study questions relating to the adulteration of articles of foods, drugs, and commercial products generally, and its detection; and to promote the efficiency and proper administration of the laws relating to the repression of adulteration.

The Meetings are held in the Rooms of the Chemical Society, Burlington House, Piccadilly, London, W. 1.

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P. A. Ellis Richards, F.I.C.

E. Richards Bolton, F.I.C.

20 Members of the Council.

*Publication.*—The Analyst (monthly). *Editor*: J. L. Baker, F.I.C.

**SOCIETY FOR THE PROMOTION OF ROMAN STUDIES**, 19, Bloomsbury Square, W.C. 1.

#### OFFICERS.

*President.*—Professor J. S. Reid, D.L., LL.D.

*Secretary.*—Miss A. M. Ramsay, M.A.

**Objects.**—The Society has been formed to effect for the History, Art, and Archeology of Rome what the Hellenic Society has for many years been doing with admirable results for Greece. Its scope embraces the History, Art, and Archeology of Rome, Italy, and the Roman Empire up to about A.D. 700. Medieval and Renaissance Italy have been left to other bodies. In connection with the Hellenic Society the Roman Society maintains at 19, Bloomsbury Square, a joint library of Greek and Roman Archeology and History, a collection of lantern slides and photographs. These are open to members of both Societies.

*Publication.*—The Journal of Roman Studies, Vol. VIII., Parts 1 and 2.

**SOCIETY FOR PSYCHICAL RESEARCH, ENGLAND**, 20, Hanover Square, W. 1. (1882.)

#### OFFICIALS.

*President.*—Wm. McDougall, F.R.S., M.Sc., M.B.

*Hon. Secretary.*—Mrs. Henry Sidgwick.

*Secretary.*—Miss I. Newton.

**Publications.**—Proceedings, published irregularly. Current part, Part LXXVII, Vol. XX.

**THE RÖNTGEN SOCIETY**, temporarily at the McNeal Society of London,  
11, Chandos Street, W. (1897.)

OFFICIALS.

*President*.—G. B. Batten, M.D., C.M.

*Hon. Secretaries*.—R. Knox, M.D.; S. Russ, D.Sc.

*Hon. Treasurer*.—G. Pearce.

**Publication**.—The Journal of the Röntgen Society (quarterly).

**THE HISTORICAL ASSOCIATION**, 22, Russell Square, W.C.

OFFICIALS.

*President*.—Prof. C. H. Firth, M.A., LL.D., Litt.D., B.A.

*Treasurer*.—Miss A. M. Baylay.

*Secretary*.—Miss M. B. Curran.

**Publications**.—

History (quarterly).

Annual Bulletin of Historical Literature.

Bibliographies.

**THE FARADAY SOCIETY**, 10, Essex Street, Strand, W.C. 2. (1903.)

To promote the study of Electrochemistry, Electrometallurgy, Chemical Physics, Metallography, and kindred subjects.

OFFICERS.

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*Vice-Presidents*.—

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*Treasurer*.—R. L. Moud, M.A., F.R.S.E.

*Secretary*.—F. S. Spiers.

**Publications**.—

Transactions (quarterly and half-yearly).

Proceedings (monthly).

**THE ASSOCIATION OF ECONOMIC BIOLOGISTS.**

The Association was reorganized in its present form in 1914, and its membership is open to all workers in Applied Biology. The annual subscription is one guinea, the entrance fee being half a guinea.

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*President for 1920*.—Sir David Prain, C.M.G., C.I.E., F.R.S.

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*Botanical Secretary*.—W. B. Brierley, Institute of Plant Pathology, Rothamsted Experiment Station, Harpenden, Herts.

**Publication**.—"Annals of Applied Biology." *Editor*: E. E. Green, Way's End, Camberley, Surrey.

**THE JOHN INNES HORTICULTURAL INSTITUTION**, Mostyn Road, Merton Park, S.W. 19. (1910.)

*Director*.—W. Bateson, M.A., F.R.S.

The Institution was founded by the will of the late John Innes, proved in 1905, and is governed by a body of Trustees, advised by a Council representative of various public bodies. In pursuance of the purposes of the Institution Studentships of various grades have been awarded to persons selected to undertake investigation of a scientific or practical nature on subjects connected with horticulture, and exhibitions are provided tenable by young men training to become gardeners, who hold a position analogous to that of the "young gardeners" at Kew. Facilities are also given for investigations cognate to the work of the Institution carried out by qualified persons not members of the Staff.

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*Assistant Director.*—A. W. Hill, Sc.D.

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## LONDON (Ontario).

## WESTERN UNIVERSITY OF LONDON, Ontario, Canada. (1878.)

*Terms:* October to June.

*Students:* 200.

*Budget:* \$100,000.

## OFFICIALS.

*Chancellor.*—The Hon. William J. Roche, M.D., LL.D., M.P.

*President.*—(Vacant.)

*Registrar.*—K. P. R. Neville, M.A., Ph.D.

*Bursar.*—William Waugh, M.D., LL.D.

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**Gowns.**—For Bachelor's degree, Cambridge shape with long pointed sleeves, of black worsted stuff, untrimmed, open or closed.

For Master's degree, Cambridge shape with long closed sleeves, of black worsted stuff or silk, untrimmed, open or closed.

For Doctor's degree, Cambridge shape with round open sleeves, of black worsted stuff or silk, open, with facing down the front of black velvet, with three bars of black velvet across each sleeve; or with the facing and bars of the colour of velvet that by convention pertains to the faculty in which the degree has been obtained, viz.: Arts, white; Medicine, dark green; Science, gold yellow; Laws, purple; Theology, scarlet.

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## Professors :

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N. C. James, *German.*

L. P. Shanks, *Romance Languages.*

K. P. R. Neville, *Classics.*

W. J. Patterson, *Mathematics.*

E. H. Perkins, *Geology.*

A. D. Robertson, *Biology.*

W. F. Tamblin, *English Literature.*

C. C. Waller, *Hebrew.*

L. A. Wood, *History and Economics.*

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N. H. Beal, *Clinical Surgery.*

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**Assistant Professors :**

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F. W. Luney, *Pathology.*  
J. A. MacGregor, *Medicine.*  
W. J. Robinson, *Psychiatry.*  
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S. Thompson, *Eye, Ear, Nose, and Throat.*  
W. J. Tillman, *Pediatrics.*  
E. H. Young, *Psychiatry.*

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General University Library. *Librarian :* Miss Marjorie Ross.  
Barnett Library. *Librarian :* J. Davis Barnett.  
Medical Library. *Librarian :* Miss Griffin.

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E. L. Hodgins, *Clinical Surgery.*  
J. C. Lindsay, *Pediatrics.*  
W. J. Stevenson, *Gynecology and Obstetrics.*  
E. L. Williams, *Gynecology and Obstetrics.*  
J. C. Wilson, *Surgical Anatomy.*  
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**Inst. of Public Health.**

**Professors :**

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Huron Theological College.  
Unsaline College, Chatham, Ont.  
Assumption College, Sandwich, Ont.

**LOS ANGELES (California).**

**UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles, Cal. (1879.)**

*Terms :* Two a year.

*Students :* 1,079.

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*Dean of the College of Music.*—W. F. Skeele, A.B.  
*Dean of the College of Oratory.*—Miss Elizabeth Yoder.

**Degrees conferred.**—A.B., A.M., M.D., LL.B., LL.M., J.D., D.D.S., B.D., Ph.G., Phar.B., B.S.

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**COLLEGE OF LIBERAL ARTS.**

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E. S. Bogardus, *Sociology.*  
M. G. Borthwick, *German Language and Literature.*  
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C. C. Douglas, *Greek Language and Literature.*  
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R. Malcolm, *Political Science.*  
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L. M. Riddle, *French Language and Literature.*  
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J. F. Wilson, *Electrical and Mechanical Engineering.*  
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**COLLEGE OF PHYSICIANS AND SURGEONS.**
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J. Endelman, *Special Pathology, Therapeutics, and Materia Medica.*  
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L. G. McNeile, *Obstetrics.*  
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G. H. Wilson, *Clinical Prosthesis.*  
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W. L. Zuill, *Otology, Laryngology, and Rhinology.*

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H. Herbert, *Physical Diagnosis.*  
W. L. Huggins, *Surgery.*  
E. D. Jones, *Therapeutics.*  
G. W. McCoy, *Ophthalmology.*  
P. C. H. Pahl, *Orthopedic Surgery, Fractures and Dislocations, and Chief of University Hospital and Clinic.*  
G. J. Lund, *Otology, Laryngology, and Rhinology.*  
H. Shoemaker, *Surgery.*  
H. E. Southworth, *Gynecology.*  
W. F. Wessels, *Medicine.*

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A. S. Granger, *Medicine.*  
R. A. Harris, *Ophthalmology.*  
H. W. Howard, *Gynecology.*  
J. C. Irwin, *Obstetrics.*  
W. H. Kiger, *Proctology.*  
F. J. Leavitt, *Medicine.*  
A. F. Maisch, *„*  
A. R. McLaughlin, *Physiology.*  
E. A. Newton, *Medicine.*  
C. E. Phillips, *Surgery.*  
A. J. Scott, *Pediatrics.*  
L. Shulman, *Diseases of the Chest.*  
A. S. Vanderstempel, *Materia Medica.*  
F. R. Webb, *Anatomy.*

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G. W. Craig, *Elementary Law.*  
L. A. Groff, *Mining Law.*  
P. V. Hammon, *Criminal Law, Criminal Procedure.*  
B. C. Hanna, *Public Corporations, California Codes.*  
F. W. Houser, *Private Corporations and Ethics.*  
P. J. McCormick, *Criminal Law, Criminal Procedure.*  
V. R. McLucas, *Common Law Pleading.*  
C. E. Millikan, *Practice.*  
C. C. Montgomery, *Equity Jurisprudence and Procedure.*  
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G. Newkirk, *Contracts.*  
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E. W. Tuttle, *Admiralty.*  
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 L. E. Ford, *Clinical Dentistry*.  
 F. W. Frahm, *Prosthesis and Crown and Bridge Work*.  
 A. D. La Touche, *Operative Dentistry*.  
 C. D. Lockwood, *Oral Surgery*.  
 J. D. McCoy, *Orthodontia and Radiography, Dental Faculty*.  
 W. R. Molony, *Anatomy*.  
 E. F. Tholen, *Oral Surgery*.  
 A. F. Wagner, *Physics, Chemistry and Metallurgy*.

#### Associate Professors :

- E. L. Eames, *Prosthesis*.  
 J. R. McCoy, *Orthodontia*.  
 D. D. Thornton, *Oral Surgery*.  
 M. G. Varian, *Anatomy*.

#### Assistant Professors :

- J. T. Parker, *Dental Anatomy and Operative Technics*.  
 R. D. Johnston, *Pyorrhea Alveolaris and Oral Prophylaxis*.

### COLLEGE OF THEOLOGY.

#### Professors :

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**Post-Graduate Courses.**—Leading to A.M., LL.M., J.D., and Phar.B.

**Library.**—University Library of 37,000 volumes. *Librarian* : Miss C. M. Brown.

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 R. M. Smith (Miss), *Piano*.  
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**SOUTHERN BAPTIST THEOLOGICAL SEMINARY**, Louisville, Kentucky. (1859.)

*Terms* : Four per year. *Students* : 315 Undergraduates, 9 Graduates.

### OFFICIALS.

*President*.—E. Y. Mullins, D.D., LL.D.

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**Degrees conferred**.—Th.G., Th.B., Th.M., Th.D.

### PROFESSORS.

#### Professors:

E. Y. Mullins, *Theology, Systematic and Biblical Theology*.

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#### Associate Professor :

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**Post-Graduate Courses** for Th.D. (Doctor in Theology).

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*Teachers' Training Department*.—Miss Margaret Landrum, Miss Susan Walsh.

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### PROFESSORS.

#### COLLEGE OF ARTS.

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#### COLLEGE OF SCIENCE.

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#### TEACHERS' TRAINING.

S. Walsh (Miss), *Normal Methods*.

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**LUCKNOW CHRISTIAN COLLEGE, Lucknow. (1872.)**

This College is maintained by the Board of Foreign Mission of the Methodist Episcopal Church of the United States of America. Affiliated to the University of Allahabad.

*Terms* : One a year—July to April.

*Students* : 255.

*Budget* : Rs. 135,000 per annum.

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N. D. Shastri, *Sanskrit*.  
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K. C. Mozumdar, *English*.  
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T. N. Dass, *Chemistry*.  
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**MADISON (Wisconsin).**

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*Terms* : Two semesters and one Summer session.

*Students* : 6,978 (includes regular session, short courses, and summer session).

*Budget* (1918-19) : \$3,532,305.61.

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J. R. Commons, *Economics*.  
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G. M. Smith, *Botany*.  
C. Starch, *Psychology and Education*.  
W. D. Stovall, *Hygiene*.  
E. M. Terry, *Physics*.  
B. M. Trilling (Miss), *Physical Education*.  
W. H. Twenhofel, *Geology*.  
W. H. Varnum, *Manual Arts*.  
G. Wagner, *Zoology*.  
J. W. Watson, *Electrical Engineering*.

**Assistant Professors :**

- H. B. Adkins, *Chemistry*.  
K. Allen (Miss), *Latin*.  
E. G. Atkin, *Romance Languages*.  
F. H. Bair, *English*.  
E. T. Bartholomew, *Botany*.  
E. F. Bean, *Geology*.  
H. R. Brown (Miss), *Physical Education*.  
F. Bruns, *German*. [tion.  
E. H. Byrne, *History*.  
C. D. Cool, *Romance Languages*.  
R. H. Denniston, *Botany*.  
B. F. Dodge (Miss), *Home Economics*.  
A. Dresden, *Mathematics*.  
A. B. Ernst (Miss), *German*.  
F. A. Ernst, *Romance Languages*.  
L. M. Gay (Miss), *Romance Languages*.  
W. Gelteh, *Music*.  
C. F. Gillen, *Romance Languages*.  
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G. Johnson (Miss), *Public Speaking*.  
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 F. T. Kelly, *Semitic Languages and Hellenistic Greek*.  
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 R. B. Michell, *Romance Languages*.  
 A. V. Millar, *Drawing and Descriptive Geometry*.  
 H. L. Miller, *Education*.  
 C. E. Muller, *Romance Languages*.  
 F. L. Nardin (Miss), *English*.  
 W. Nebel, *Chemistry*.  
 J. Ortega, *Romance Languages*.  
 R. S. Owen, *Topographical Engineering*.  
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 J. D. Phillips, *Drawing and Descriptive Geometry*.  
 A. M. Pitman (Miss), *English, Greek, and Latin*.  
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 F. O. Reed, *Romance Languages*.  
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**COLLEGE OF ENGINEERING.**

**Professors:**

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 J. G. Callan, *Steam and Gas Engineering*.  
 B. G. Elliott, *Mechanical Engineering*.  
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 E. R. Jones, *Agricultural Engineering*.  
 W. S. Kinn, *Structural Engineering*.  
 G. L. Larson, *Steam and Gas Engineering*.  
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 F. W. Duffee, *Agricultural Engineering*.  
 H. S. Frary, *Steam and Gas Engineering*.  
 A. L. Goddard, *Mechanical Practice*.  
 G. W. Hobbs, *Agricultural Engineering*.  
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 J. O. Kammernan, *Electrical Engineering*.  
 J. B. Kommers, *Mechanics*.  
 G. J. Mitchell, *Chemical Engineering*.  
 H. D. Orth, *Mechanical Drawing and Descriptive Geometry*.  
 J. R. Price, *Electrical Engineering*.  
 E. R. Shorey, *Mining and Metallurgy*.  
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**COLLEGE OF AGRICULTURE.**

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 D. S. Bullock, *Animal Husbandry*.  
 E. H. Farrington, *Dairy Husbandry*.  
 W. D. Frost, *Agricultural Bacteriology*.  
 J. G. Fuller, *Animal Husbandry*.  
 F. B. Hadley, *Veterinary Science*.  
 J. G. Halpin, *Poultry Husbandry*.  
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 E. G. Hastings, *Agricultural Bacteriology*.  
 K. L. Hatch, *Agricultural Education*.  
 B. H. Hibbard, *Agricultural Economics*.  
 A. W. Hopkins, *Agricultural Journalism*.  
 G. C. Humphrey, *Animal Husbandry*.  
 L. R. Jones, *Plant Pathology*.  
 J. G. Moore, *Horticulture*.  
 R. A. Moore, *Agronomy*.  
 J. B. Overton, *Plant Physiology*.  
 H. L. Russell, *Agriculture*.  
 A. R. Whitson, *Soils*.



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E. J. Delwiche, *Agronomy*.  
E. B. Fred, *Agricultural Bacteriology*.  
L. F. Graber, *Agronomy*.  
R. S. Hulce, *Animal Husbandry*.  
J. A. James, *Agricultural Education*.  
A. G. Johnson, *Plant Pathology*.  
G. W. Keitt, *Plant Pathology*.  
T. Macklin, *Agricultural Economics*.  
J. G. Milward, *Horticulture*.  
F. B. Morrison, *Animal Husbandry*.  
W. H. Peterson, *Agricultural Chemistry*.  
J. L. Sammis, *Dairy Husbandry*.  
H. Steenbock, *Agricultural Chemistry*.  
W. E. Tottingham, *Agricultural Chemistry*.  
E. Truog, *Soils*.

# Assistant Professors:

F. A. Aust, *Horticulture*.  
G. H. W. Benkenhoff, *Dairy Husbandry*.  
A. Boring (Miss), *Home Economics*.  
G. Bohstedt, *Animal Husbandry*.  
P. W. Boutwell, *Agricultural Chemistry*.  
G. M. Briggs, *Agronomy*.  
I. G. Dickson, *Plant Pathology*.  
W. J. Geib, *Soils*.  
P. M. Harmer, *Soils*.  
J. Johnson, *Horticulture*.  
F. Kleinheinz, *Animal Husbandry*.  
B. D. Leith, *Agronomy*.  
E. W. Linstrom, *Genetics*.  
N. L. McMurry, *Economic Entomology*.  
G. B. Mortimer, *Agronomy*.  
F. L. Musbaeh, *Soils*.  
G. F. Potter, *Horticulture*.  
G. Richards, *Soils*.  
R. H. Roberts, *Horticulture*.  
M. H. Scott, *Animal Husbandry*.  
H. W. Stewart, *Soils*.

# Associate Professors—Continued :

A. L. Stone, *Agronomy*.  
W. A. Sumner, *Agricultural Journalism*.  
H. W. Ullsperger, *Soils*.  
J. C. Walker, *Plant Pathology*.  
J. F. Wojta, *Agricultural Extension*.  
A. N. Wright, *Agronomy*.  
W. H. Wright, *Agricultural Bacteriology*.

# MEDICAL SCHOOL.

# Professors :

C. R. Bardeen, *Anatomy*.  
H. C. Bradley, *Physiology*.  
C. H. Bunting, *Pathology*.  
P. F. Clark, *Bacteriology*.  
H. E. Dearholt, *Health Instruction*.  
J. S. Evans, *Clinical Medicine*.  
J. A. E. Eyster, *Physiology*.  
E. Kremers, *Pharmaceutical Chemistry*.  
A. S. Loevenhart, *Pharmacology and Toxicology*.  
W. S. Miller, *Anatomy*.  
R. Van Valzah, *Clinical Medicine*.

# Assistant Professors :

P. M. Dawson, *Physiology*.  
V. C. Jacobson, *Pathology*.  
O. Larsell, *Anatomy*.  
W. S. Middleton, *Clinical Medicine*.  
S. J. Morriss (Miss), *Clinical Medicine*.  
G. H. Robbins, , ,

# LAW SCHOOL.

# Professors :

E. A. Gilmore, *Law*.  
W. H. Page, *Law*.  
H. S. Richards, *Law*.  
O. S. Rundell, *Law*.  
H. L. Smith, *Law*.

# Associate Professor :

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**Libraries.**—Historical, University, Engineering, Law, and Agricultural Libraries. 519,600 volumes and 270,800 pamphlets. *Librarian* : W. M. Smith.

# EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—H. L. Russell.

# MADRAS.

**THE UNIVERSITY OF MADRAS**, Senate House, Chepauk, Madras. (1857.)

*Terms* : Three a year.

*Number of Students* :

Arts	..	..	..	..	8,995
Medicine	..	..	..	..	327
Engineering	..	..	..	..	128

Total .. .. . 9,450

## OFFICIALS.

*Chancellor.*—His Excellency the Governor of Madras.

*Vice-Chancellor.*—The Hon. Mr. Justice F. D. Oldfield, I.C.S.

*Registrar.*—Francis Dewsbury, B.A., LL.B.

*Budget:* The finances of the University comprise: (1) Fees utilized for administration 1918-19: Receipts, Rs. 3,84,457; Expenditure Rs. 3,15,318. (2) Endowments for prizes, medals, etc.: Capital Account, Rs. 2,8,150. (3) Imperial Recurring Grant: Rs. 65,000 per annum. (4) Imperial Non-Recurring Grants. (5) Grants from the Government of Madras for special purposes. (6) University Expansion Fund. The accumulated invested balance of the University now amount to nearly 23 lakhs of rupees.

**Degrees conferred.**—B.A., M.A., B.Sc., M.Sc., L.T., LL.B., LL.M., LL.D., M.B., B.S., M.D., L.M., L.S., M.S., B.S.Sc., B.E.

**Professors :**

G. Slater, *Indian Economics.*

Rao Sahib S. Krishnaswami Anjangan, *Indian History and Archeology.*

These Professors are under the direct control of the University. Each affiliated college has its own staff of Professors and Lecturers.

**Lecturers.**—With the exception of the two Professors named above, the University, as such, has no staff engaged directly in teaching. The University appoints annually ordinary University Lecturers mainly to assist the affiliated colleges in giving instruction in Honours Courses. For the same purpose intercollegiate lectures are also arranged. The University organizes from time to time special lectures by eminent persons in Europe and India.

**Library.**—The University Library contains over 20,000 volumes.

**Post-Graduate Courses.**—Research studentships up to a maximum of 8 per annum are granted to graduate students. These studentships are of the value of from Rs. 75 to Rs. 200 per mensem and are generally tenable for a period of three years.

## AFFILIATED INSTITUTIONS.

The number of colleges affiliated to the University is as follows:

*In the Faculty of Arts and Science.*—

Training Colleges for Teachers, 2.

Colleges affiliated up to Honours Course, 4.

Colleges affiliated up to B.A. Degree Course, 17.

Colleges affiliated up to Intermediate Course, 28.

*In the Faculty of Law,* 2.

*In the Faculty of Medicine,* 1.

*In the Faculty of Engineering,* 1.

**COLLEGE OF ENGINEERING, Madras. (1794.)**

Affiliated to the University of Madras.

*Students :* 520.

*Budget :* Rs. 160,000.

## OFFICIALS.

*Principal.*—W. H. James, M.Sc., M.I.M.E., A.M.Inst.C.E.

## PROFESSORS.

H. W. Barker, *Civil Engineering.*

C. L. Cartwright, *Mechanical Engineering.*

H. B. Matthews, *Electrical Engineering.*

M. R. R. K. R. Ramaswami Azyangar, *Mathematics.*

**DEPARTMENT OF FISHERIES, Government Fisheries Bureau, Mount Rd., Madras.**

*Director.*—J. Hornell, F.L.S.

*Honorary Superintendent, West Coast Stations.*—Sir F. A. Nicholson, K.C.I.E.

*Marine Biologist.*—R. H. Whitehouse, M.Sc.

*Marine Assistant.*—J. H. Allen, O.B.E.

*Assistant Director.*—Rao Bahadur V. V. Govindan, B.A., F.Z.S.

*Piscicultural Assistant.*—B. Sundara Raj, M.A.

*Zoological Assistant.*—S. T. Moses, M.A.

### Scientific and Technical Institutions under the Department.

Marine Aquarium, at Madras, opened 1909.

Biological Station, Krusadai Island, Pamban, at the head of the Gulf of Mannar (under construction).

Training School for Teachers (Fisheries Schools), Calicut, opened 1919.

Various industrial experimental Stations, including model cannery, etc.

**Publications.**—"Madras Fisheries Bulletins," of which eleven volumes have appeared. Contains both zoological and technical reports.

## MADURA (India).

**THE AMERICAN COLLEGE**, Madura, South India. (1881.)

Affiliated with the University of Madras.

*Terms* : Two a year.

*Students* : 318.

*Budget* :

Staff	.. .. .	58,285 Rupees.
Science Apparatus, etc.	.. .. .	13,770 ,,

### OFFICIALS.

*Principal*.—W. M. Zumbro, M.A.

*Vice-Principal*.—Peter Isaac, B.A., L.T.

*Secretary*.—A. J. Saunders, M.A.

*Treasurer*.—E. M. Flint, M.A.

*Warden of Hostel*.—E. L. Nolting, M.A.

*Librarian*.—A. J. Saunders, M.A.

### PROFESSORS.

W. M. Zumbro, *English*.

A. D. Massillamoni, *English*.

E. L. Nolting                   ,,

N. R. Kedari Raaf           ,,

I. Saththianathan           ,,

J. E. Kesari                   ,,

A. J. Saunders, *History and Economics*.

L. C. Guise                   ,,           ,,

P. C. Chacko                  ,,           ,,

K. Kameswaram           ,,           ,,

E. M. Flint, *Physical Science*.

N. K. Aiyar                   ,,           ,,

K. S. V. Aiyanger, *Physical Science*.

S. M. Aiyer, *Physical Science*.

S. Chelladurai, *Natural Science*.

P. Isaac, *Logic*.

S. M. Aiyar, *Mathematics*.

S. Sessa Sastrial, *Sanskrit*.

A. K. Konar, *Tamil*.

K. R. Nambiar, *Malayalam*.

**Library.**—General Library of 5,700 volumes, 200 bound periodicals, 250 unbound periodicals. *Librarian* : A. J. Saunders.

**MALTA, UNIVERSITY OF.** See VALETTA.

## MANCHESTER.

**THE VICTORIA UNIVERSITY OF MANCHESTER**, Oxford Road, Manchester. (1851.)

*Terms* : Three per year.

*Students* : 2,549.

*Budget* : Total Assets, £1,842,773 12s. 3d.

### OFFICIALS.

*Chancellor*.—Rt. Hon. Viscount Morley of Blackburn, C.M.

*Vice-Chancellor*.—Sir Henry A. Miers, M.A., Ph.D., F.R.S.

*Registrar*.—Edward Fiddes, M.A.

**Degrees conferred.**—Ph.D., Litt.D., M.A., B.A., D.Sc., M.Sc., B.Sc., LL.D., LL.B., M.D., Ch.M., M.B., Ch.B., Mus.D., Mus.B., M.Com., B.Com., D.D., B.D., M.S.Tech., B.Sc.Tech., M.Ed.

**Hoods.**—The Hoods of Bachelors and Masters shall be of fine black cloth or silk, trimmed in the following manner:

Degrees conferred—Continued.

<i>Degrees.</i>	<i>Hoods.</i>
B.A. -	Edging of pale blue silk, with a white fur lining inside the edging.
M.A. -	Lining of pale blue silk.
B.Sc. -	Edging of salmon silk, with a white fur lining inside the edging.
M.Sc. -	Lining of salmon silk.
LL.B. -	Broad edging of violet-coloured silk.
M.B. -	Broad edging of red silk.
M.Sur. -	Lining of red silk.
B.D.S. -	Edging of fawn silk, with a white fur lining inside the edging.
M.D.S. -	Lining of fawn silk.
Mus.B. -	Dark blue silk, with a two-inch border of light blue silk on both the inner and outer side.
B.Com. -	Edging of orange silk, with a white fur lining inside the edging.
M.Com. -	Lining of orange silk.
B.D. -	Lining of heliotrope silk, with a white fur edging within the silk.
B.T.S. -	Edging of terra-cotta corded silk, and a white fur lining inside the edging.
M.T.S. -	Lining of terra-cotta corded silk.
M.Ed. -	Lining of bluish-green silk.

The hoods for the degrees of Litt.D., D.Se., LL.D., DD., and M.D., shall be of velvet or of satin serge of a gold colour, lined with silk of a lighter shade of the same colour.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- T. F. Tout, *History*.  
 S. Alexander, *Philosophy*.  
 A. Johannson, *Germanic Philology*.  
 C. H. Herford, *English Language and Literature*.  
 G. E. K. Bramholtz, *Classics*.  
 E. H. Parker, *Chinese*.  
 R. S. Conway, *Latin and Indo-European Philology*.  
 L. E. Kastner, *French Language and Literature*.  
 G. Unwin, *Economic History*.  
 A. C. Dickie, *Architecture*.  
 W. J. Sedgefield, *English Language*.  
 W. B. Anderson, *Imperial Latin*.  
 W. M. Calder, *Greek*.  
 J. R. Muir, *Modern History*.  
 D. H. Macgregor, *Political Economy*.  
 M. V. Trofimov, *Russian*.  
 T. H. Pear, *Experimental Psychology*.  
 J. Orr, *French Language*.  
 E. G. Gardner, *Italian Studies*.

Lecturers :

- E. S. Forster, *Classical Archeology*.  
 H. B. Charlton, *English Literature*.  
 F. E. Harmer  
 P. Sheavyn (Miss), *English Literature*.  
 J. Marks, *French*.  
 A. Valette  
 A. Mingana, *Arabic*.  
 M. H. Farbridge, *Assyriology*.  
 L. C. Casartelli, *Frarnian Languages*.  
 T. E. Peet, *Egyptology*.  
 A. G. Little, *Paleography*.  
 E. Fiddes, *Roman History*.  
 A. W. Daniels, *Economics*.

Lecturers—Continued :

- M. E. Powell (Miss), *Economics*.  
 A. G. Ogilvie, *Geography*.  
 J. Macmurray, *Philosophy*.  
 H. McLachlan, *Hellenistic Greek*.  
 F. W. Halliday, *German*.  
 M. D. I. Lloyd  
 A. Kirk, *Modern Languages*.

Reader :

- W. T. Waugh, *Ecclesiastical History*.  
 12 Assistant Lecturers.

FACULTY OF SCIENCE.

Professors :

- Sir H. A. Miers, *Crystallography*.  
 H. Lamb, *Mathematics*.  
 H. B. Dixon, *Chemistry*.  
 F. E. Weiss, *Botany*.  
 S. J. Hickson, *Zoology*.  
 A. Lapworth, *Organic Chemistry*.  
 W. L. Bragg, *Physics*.  
 R. Beattie, *Electro-Technics*.  
 O. T. Jones, *Geology*.  
 S. Chapman, *Mathematics*.

Associate Professor :

- L. Sandeman, *Engineering*.

Readers :

- F. P. Burt, *Inorganic Chemistry*.  
 H. G. Hickling, *Geology*.  
 J. N. Pring, *Electro-Chemistry*.

Lecturers :

- W. Makower, *Physics*.  
 E. J. Evans  
 H. Robinson, *Physics*.  
 R. W. James, *Chemistry*.  
 N. Smith

**Lecturers—Continued :**

J. E. Myers, *Chemistry*.  
W. J. Jones                "  
C. Campbell               "  
H. Stephen               "  
D. H. Baugham           "  
E. G. Gaul, *Bacteriological Chemistry*.  
J. S. Thomson, *Zoology*.  
R. A. Wardle               "  
H. S. Leigh               "  
G. Lapage                 "  
R. S. Adamson, *Botany*.  
W. Robinson, *Botany*.  
W. O. Howarth, *Botany*.  
F. K. Charlsworth, *Geology*.  
H. Gerrard, *Electro-Technics*.  
C. B. Dewhurst, *Engineering*.  
F. Buckingham           "  
J. Frith                    "  
T. Cook                    "

**FACULTY OF MEDICINE.**
**Professors :**

A. S. Delepine, *Public Health and Bacteriology*.  
R. B. Wild, *Materia Medica and Therapeutics*.  
G. R. Murray, *Systematic Medicine*.  
W. Thorburn, *Clinical Surgery*.  
J. W. Smith, *Systematic Surgery*.  
A. Donald, *Obstetrics and Gynecology*.  
E. S. Reynolds, *Clinical Medicine*.  
H. R. Dean, *Pathology and Pathological Anatomy*.  
J. S. B. Stopford, *Anatomy*.

**Lecturers :**

J. Morley, *Clinical Anatomy*.  
T. G. Brown, *Experimental Physiology*.  
J. Grier, *Pharmacognosy, etc.*  
H. Simms, *Dental Materia Medica*.  
W. B. Anderton, *Pathology*.  
J. H. Dible                "  
G. E. Loveday            "  
J. Holker                 "  
W. Dyson                 "  
C. P. White               "  
E. M. Brockbank, *Clinical Medicine*.  
A. Ramsbottom           "  
F. E. Tyleeote            "  
C. H. Melland            "  
D. E. Core                "  
F. C. Moore, *Systematic Medicine*.  
J. W. Stephens, *Tropical Diseases*.  
J. Fletcher, *Infectious Diseases*.  
H. H. Rayner, *Clinical Surgery*.  
W. H. Hey                "  
J. P. Buckley            "  
E. D. Telford, *Systematic Surgery*.  
P. R. Wrigley, *Operative Surgery*.  
G. Wright                "  
J. H. Ray, *Surgical Pathology*.  
A. H. Burgess, *Practical Surgery*.  
C. Roberts, *Orthopædic Surgery*.

**Lecturers—Continued :**

W. E. Fothergill, *Obstetrics*.  
D. L. Roberts            "  
C. P. Lapage, *Diseases of Children*.  
W. B. Anderton, *Forensic Medicine*.  
J. J. Butterworth, *Hygiene*.  
W. Scowcroft, *Mental Diseases*.  
J. G. Clegg, *Clinical Ophthalmology*.  
G. H. Laneashire, *Dermatology*.  
S. Moritz, *Diseases of the Larynx*.  
Sir W. Milligan, *Diseases of the Ear*.  
A. Wilson, *Anesthetics*.

**Public Health Department.**

E. J. Sidebotham, *Bacteriology (Public Health)*.  
A. Sellers, *Comparative Pathology (Public Health)*.  
H. Heap, *Practical Chemistry (Public Health)*.  
T. M. Legge, *Factory Hygiene*.  
M. Young, *School Hygiene*.  
M. Woods, *Veterinary Hygiene*.

**SCHOOL OF DENTAL SURGERY.**
**Lecturers :**

C. H. Preston, B. J. Rodway, E. Houghton, H. H. Rayner, D. Headridge, J. P. Headridge, H. Simms, G. G. Campion.

**PHARMACEUTICAL DEPARTMENT.**

**Lecturer :** J. Grier.

**FACULTY OF LAW.**

**Tutor :** L. Bottomley.

**Lecturers :**

T. C. Eastwood, E. C. Burgis, F. B. Osborne, H. S. Ferguson, J. Bennett, H. Cardwell, R. A. Eastwood.

**FACULTY OF THEOLOGY.**
**Professors :**

A. S. Peake, *Biblical Exegesis*.  
M. A. Canney, *Semitic Languages and Literature*.

**Readers :**

W. T. Waugh, *Ecclesiastical History*.  
D. Atkinson, *Ancient History*.

**Lecturers :**

Prof. Canney, *Biblical Exegesis*  
Rev. J. T. Marshall, *History of Doctrine*.  
Archdeacon Allen            "  
Rev. S. H. Mellane           "  
Rev. W. H. Bennett           "  
Rev. A. H. Mumford           "  
Rev. L. W. Gransted           "  
Rev. J. T. Breurs            "  
Rev. R. Mackintosh, *Philosophy of Religion*.  
Prof. W. M. Calder, *Christian Epigraphy*.



# FACULTY OF EDUCATION.

## Professors :

J. J. Findlay, *Education*.  
H. B. Smith ,,

## Lecturers :

C. Herford (Miss), *Education*.  
H. T. Mark ,,  
A. E. Heath ,,  
M. E. Eggar (Miss) ,,  
O. A. Wheeler (Miss) ,,  
S. A. Burstall (Miss) ,,  
J. L. Paton ,,  
I. R. Goldsack, *Training Teachers of the Deaf*.  
G. Conway (Miss), *Continuation School Teaching*.  
F. Keighley (Miss), *Singing*.

# FACULTY OF MUSIC.

## Lecturers :

G. Brodsley, W. Carroll, T. Keighley.

# FACULTY OF COMMERCE.

## Lecturers :

G. W. Daniels, *Economics*.  
M. E. Powell (Miss), *Economics*.  
H. H. Bellhouse, *Banking*.  
D. D. Fraser ,,  
H. S. Ferguson, *Accounting*.  
R. A. Barry, *Railway Economics*.  
T. A. Kenyon ,,  
A. D. Lomas ,,  
R. G. McLaughlin ,,

**Post-Graduate Courses** for the Bachelor's Degree in Theology. For the Master's Degrees in Arts, Science, Medicine, Commerce, Technology, and Education. For the degree of Ph.D. For the degree of Doctor in Arts, Science, Law, Medicine, Music, and Theology.

## Museums.—

The Manchester Museum. *Keeper* : W. M. Tattersall, D.Sc.  
The Pathological Museum. *Curator* : W. B. Anderton.

## Libraries.—

The Christie Library. *Librarian* : C. W. E. Leigh.  
The Medical Library. *Librarian* : W. Thompson.  
The School of Technology Library. *Librarian* : H. Williams.

# AFFILIATED INSTITUTIONS.

The Harris Institute, Preston.  
Capetown University (for certain courses).

# COLLEGE OF TECHNOLOGY, Manchester. (1824.)

The College of Technology has developed from the Mechanics Institute which was founded in 1824. It became connected with the University of Manchester, when in 1905 a Faculty of Technology in the University was established with the Principal of the then School of Technology as Dean of the Faculty, and the heads of the principle Departments as Professors in the University with seats on the Senate of the University. In 1912 the College was officially recognized as a College of University rank, being included for the first time in the Board of Education Volume of "Reports from those Universities, and University Colleges in Great Britain which are in receipt of grants from the Board of Education."

The buildings which are situated in Sackville Street are six storeys in height, and over an area of 6,400 square yards. The value of the site, building, and equipment of the College amounts to £370,000. The buildings and greater part of the equipment are the property of the Manchester City Council, and the annual expenditure of the City Council on the maintenance of the College constitutes the greater part of the City's contribution to the cost of University education in Manchester.

*Terms* : Four per year.

*Students* : 595.

*Budget* : The cost of maintaining the College during the financial year 1918-19 was approximately £67,000. This amount is provided partly by the City of Manchester, partly by Government Grants, private donations, and grants from neighbouring authorities.

# OFFICIALS.

*Chancellor*.—The Rt. Hon. The Viscount Morley of Blackburn, O.M.

*Vice-Chancellor*.—Sir Henry A. Miers, M.A., D.Sc., Ph.D., F.R.S.

*Pro-Vice-Chancellors*.—Prof. R. B. Wilk, M.D., M.Sc., F.R.C.P.; Edward Fiddes, M.A.

*Dean of the Faculty of Technology*.—J. C. Maxwell Garnett, C.B.E., M.A.

*Degrees and Hoods*.—B.Sc.Tech., terra-cotta; M.Sc.Tech., terra-cotta. Ph.D. and D.Sc.

## PROFESSORS.

**Professors:**

G. G. Stoney, *Mechanical Engineering*.  
 M. Walker, *Electrical Engineering*.  
 F. L. Pyman, *Technological Chemistry*.  
 E. Knecht, *Applied Chemistry*.  
 A. J. Turner, *Textile Technology*.  
 A. C. Dickie, *Architecture*.  
 W. B. Dawkins, *Mining*.  
 W. W. H. Gee, *Physics*.

**Lecturers:**

H. G. Jordan, *Mechanical Engineering*.  
 P. T. Petrie               "               "  
 W. C. Popplewell       "               "  
 D. Smith               "               "  
 W. J. Walker           "               "  
 6 Assistant Lecturers, 1 Instructor and  
 an Assistant Instructor.

J. L. Langton, *Electrical Engineering*.  
 A. E. Moore               "               "  
 A. E. Clayton           "               "  
 F. Shaw               "               "  
 2 Assistant Lecturers, 1 Assistant  
 Instructor.

J. Radcliffe, *Sanitary Engineering*.  
 2 Assistant Lecturers.

**Lecturers—Continued:**

J. Huebner, *Bleaching and Dyeing*.  
 J. Grant, *Chemistry of Foodstuffs*.  
 E. L. Rhead, *Metallurgy and Assaying*.  
 F. S. Sinnatt, *Fuels*.  
 L. G. Radcliffe, *Organic Chemistry*.  
 S. J. Peachey, *Applied Chemistry*.  
 F. M. Rowe, *Dyestuffs*.  
 1 Assistant Lecturer and additional  
 Assistants.

W. Myers, *Textile Industries*.  
 A. E. G. Brookes, *Textile Design*.  
 W. A. Hanton, *Engineering (Textile)*.  
 2 Assistant Lecturers, 1 Demonstrator,  
 6 Assistant Instructors.  
 C. W. Gamble, *Photography*.  
 R. B. Fishenden, *Engraving and  
 Printing*.

G. Hickling, *Paleontology*.  
 N. T. Williams, *Coal and Metal Mining*.  
 J. Prescott, *Mathematics*.  
 F. Bowman               "  
 R. Barlow               "  
 2 Assistant Lecturers.  
 A. Ferguson, *Physics*.  
 2 Demonstrators.  
 A. Kirk, *German*.

**Post-Graduate Courses.**—The College provides facilities for advanced study and research in its Departments of Mechanical Engineering, Electrical Engineering, Applied Chemistry, Municipal and Sanitary Engineering, Textile Industries, Photographic Technology, Printing, Architecture and Mining. By the award of special research scholarships to candidates of proved ability, by the appointment of additional Professors and Lecturers to conduct and supervise research, and by the provision of additional accommodation particularly in the main Departments—Mechanical Engineering, Electrical Engineering, and Applied Chemistry—of the College, the volume of research has, during the past few years, very considerably increased.

Additional facilities for post-graduate study have been provided to meet the demand from those students who have taken their degree and who are now seeking to complete their academic training for industrial appointments by post-graduate study and research in this College, and to meet the needs of those Industrial Research Associations which have recently been formed by whole industries, and when formation has resulted in a big demand for the services of experienced graduates. Organized courses of graduate study and training in the methods of research leading to the newly established degree of Ph.D., and to the degree of M.Sc.Tech., have been arranged.

Graduates may also conduct research in this College for the degree of D.Sc.

**Library.**—College of Technology Library. *Librarian:* H. Williams.

**MANGALORE.**

**ST. ALOYSIUS' COLLEGE**, Edyah Hill, Mangalore. (1880.)

St. Aloysius' College is under the management of the Fathers of the Society of Jesus, and is affiliated to the Madras University as a first-grade college.

*Terms:* Two a year.

*Students:* 286.

**OFFICIAL.**

*Principal.*—The Rev. C. Perazzi, S.J., D.D.

**Degree conferred.**—Bachelor of Arts.

PROFESSORS.

Rev. L. Proserpio, *English*.  
 Rev. M. N. Coelho, „  
 Rev. D. J. Fernandes „  
 Rev. A. Ambruzzi, *History and English*.  
 Rev. J. M. Baizini, *Mathematics*.  
 Rev. N. Fermi, *Chemistry and Astronomy*.

Rev. T. Gonsalves, *Physics*.  
 Rev. G. Saldanha, *Logic, French and Latin*.  
 C. J. Varkey, *History*.  
 7 Lecturers, 3 Pandits.

**Libraries.**—

Professors' Library. *Librarian*: The Rev. J. M. Baizini.  
 Students' Library. *Librarian*: The Rev. M. N. Coelho.

**MANHATTAN (Kansas.)**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—F. D. Farrell.

**MARE ISLAND (California).**

**NAVAL OBSERVATORY, Mare Island, California. (1882.)**

*Director.*—Capt. T. J. J. See, Professor of Mathematics, U.S.N.  
 5 Assistants.

**MARINE BIOLOGICAL ASSOCIATION. See PLYMOUTH.**

**MAYAGUEZ (Porto Rico).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Agronomist.*—D. W. May.

**McMASTER UNIVERSITY. See TORONTO.**

**MEDFORD (Massachusetts).**

**TUFTS COLLEGE, Medford, Mass. (1852.)**

*Terms*: Two semesters a year.

*Students*: 1977.

OFFICIALS.

*Acting-President.*—John A. Cousens, A.B.

*Dean of School of Liberal Arts.*—F. G. Wren, A.M.

*Dean of College for Women.*—Caroline S. Davies, A.M.

*Dean of Engineering School.*—G. C. Anthony, A.M., Sc.D.

*Dean of Medical School.*—C. F. Painter, A.B., M.D.

*Dean of Dental School.*—William Rice, D.M.D.

*Vice-Dean of Medical and Dental Schools.*—Frank G. Wheatley, A.M., M.D.

*Dean of Theological School.*—L. S. McCollester, S.T.D.

*Dean of Graduate School.*—C. E. Fay, A.M., Litt. D.

**Degrees conferred.**—A.B., B.S. in Chemistry, B.S. in Civil Engineering, B.S. in Electrical Engineering, B.S. in Mechanical Engineering, B.S. in Chemical Engineering, B.S. in Engineering, S.T.B., M.D., D.M.D., A.M., M.S.

PROFESSORS.

**FACULTY OF THE ASSOCIATED SCHOOLS.**

**Professors:**

C. E. Fay, *Modern Languages*.

L. R. Lewis, *History and Theory of Music*.

W. K. Denison, *Latin Language and Literature*.

E. C. Bolles, *English and American*

F. E. Seavey, *English*. [*History*.]

H. I. Cushman, *Homiletics*.

C. S. Davies (Mrs.), *English*.

**Professors—Continued:**

H. G. Mitchell, *Hebrew and Old Testament Exegesis*.

A. I. Andrews, *History and Public Law*.

L. S. McCollester, *Christian Theology*.

C. H. Gray, *English*.

H. A. Wooster, *Political Science*.

F. W. Durkee, *Chemistry*.

G. C. Anthony, *Technical Drawing*.

F. G. Wren, *Mathematics*.

C. H. Chase, *Steam Engineering*.

# Professors—Continued :

F. D. Lambert, *Botany*.  
W. R. Ransom, *Mathematics*.  
E. H. Roekwell, *Structural Engineering*.  
S. L. Conner, *Railroad Engineering*.  
A. C. Lane, *Geology and Mineralogy*.  
H. V. Neal, *Zoology*.  
C. R. Skinner, *Applied Chemistry*.  
G. P. Bacon, *Physics*.

# Assistant Professors :

W. H. Reed, *Modern Languages*.  
A. H. Gilmer, *English*.  
W. F. Wyatt, *Greek*.  
E. A. Shaw, *Education*.  
C. F. Nevens, *Modern Languages*.  
J. C. Seammell, *English*.  
R. C. Givler, *Philosophy*.  
E. B. Rollins, *Electrical Engineering*.  
M. S. Munro, *Electrical Engineering*.  
H. H. Carroll, *Technical Drawing*.  
C. F. Baker, *Analytical Chemistry*.  
H. Rice, *Mathematics*.  
C. A. Adams, *Mechanics Arts*.  
E. MacNaughton, *Mechanical Engineer-*  
*ing*.  
E. H. Wright, *Civil Engineering*.  
T. E. Mergendahl, *Mathematics*.  
W. E. Farham, *Technical Drawing*.  
D. E. Worrall, *Chemistry*.  
H. P. Burden, *Civil Engineering*.  
2 Lecturers, 27 Instructors, 19 Assistants.

## FACULTY OF THE MEDICAL SCHOOL.

### Professors :

J. L. Ames, *Theory and Practice of*  
G. A. Bates, *Histology*. [*Medicine*.]  
W. E. Chenery, *Laryngology*.  
W. R. P. Emerson, *Children's Diseases*.  
L. V. Friedman, *Obstetrics*.  
A. Greenwood, *Ophthalmology*.  
G. W. Kaan, *Clinical Gynecology*.  
F. H. Lahey, *Clinical Surgery*.  
E. B. Lane, *Mental Diseases*.  
T. Leary, *Pathology, Bacteriology, and*  
*Medical Jurisprudence*.  
E. N. Libby, *Clinical Medicine*.  
F. H. McCrudden, *Applied Therapeu-*  
*tics*. [*Climatology*.]  
E. O. Otis, *Pulmonary Diseases and*  
C. F. Painter, *Orthopedic Surgery*.  
E. M. Plummer, *Otology*.  
A. H. Ryan, *Physiology*.  
W. E. Sullivan, *Anatomy*.  
T. W. Thorndike, *Dermatology*.  
F. G. Wheatley, *Pharmacology*.  
C. M. Whitney, *Genito-Urinary Dis-*  
*eases*.

# Associate Professors :

A. L. Chute, *Genito-Urinary Surgery*.  
W. E. Fernald, *Mental Diseases*.  
F. E. Haskins, *Pharmacology*.  
A. R. Kimpton, *Surgery*.  
W. F. Nolen, *Anatomy*.  
S. Rushmore, *Gynecology*.

# Assistant Professors :

A. E. Austin, *Clinical Medicine, Lec-*  
*turer in Gastro-Intestinal Diseases*.  
E. W. Barron, *Children's Diseases*.  
A. W. George, *Roentgenology*.  
C. D. Knowlton, *Theory and Practice*  
*of Medicine*.  
O. C. Leary (Mrs.), *Pathology and Bac-*  
*teriology*.  
F. P. McCarthy, *Pathology and Bac-*  
A. Myerson, *Neurology*. [*teriology*.]  
T. J. O'Brien, *Clinical Medicine*.  
A. K. Paine, *Obstetrics*.  
C. Phipps, *Clinical Medicine*.  
F. Reis, *Physiological and Biological*  
*Chemistry and Toxicology*.  
M. H. Rogers, *Orthopedic Surgery*.  
L. M. Spear, *Theory and Practice of*  
*Medicine*.  
A. W. Stearns, *Neurology*.  
C. E. Turner, *Hygiene*.  
2 Lecturers, 35 Instructors, 25 Teach-  
ing Assistants, 10 Laboratory As-  
sistants.

## FACULTY OF THE DENTAL SCHOOL.

### Professors :

R. H. Ashley, *Chemistry*.  
G. A. Bates, *Comparative Anatomy*.  
W. G. Bridge, *Crown and Bridge Work*.  
A. L. Johnson, *Orthodontia*.  
C. M. Proctor, *Oral Surgery*.  
W. Rice, *Operative Dentistry*.

# Associate Professors :

G. C. Ainsworth, *Operative Dentistry*.

# Assistant Professors :

H. J. Baker, *Operative Dentistry*.  
H. H. Chakmakjian, *Chemistry*.  
C. W. Farrington, *Operative Dentistry*.  
W. P. Houston, *Operative Dentistry*.  
A. L. Morse, *Orthodontia*.  
R. H. Norton, *Oral Surgery and Anes-*  
*thesia*.  
F. O'Meara, *Chemistry*.  
H. H. Piper, *Operative Dentistry and*  
*Instructor Dental History*.  
28 Instructors, 60 Visiting Instructors,  
2 Teaching Assistants, 15 Laboratory  
Assistants.

Post-Graduate Courses for A.M. and M.S. degrees.

Museum.—The Barnum Museum of Natural History.

Library.—Eaton Memorial Library. Librarian : Miss E. M. Hayes, A.B. Assistant Librarian : Miss B. H. Hooper, A.B.



## MELBOURNE (Victoria).

UNIVERSITY OF MELBOURNE, Melbourne, Victoria. (1853.)

*Terms* : Four per year.*Students* (1919): 1925.*Budget* (1918):

Receipts:	Government Grants	..	..	..	£29,167
	Fees	..	..	..	43,303
	Interest	..	..	..	8,197
	Other Sources	..	..	..	1,726
	Total	..	..	..	£82,393

Payments:	Salaries	..	..	..	£50,231
	Laboratory Expenses	..	..	..	4,367
	Scholarships, etc.	..	..	..	6,127
	Buildings and Grounds	..	..	..	3,063
	General Maintenance	..	..	..	3,602
	Other Expenses	..	..	..	8,558
	Total	..	..	..	£75,948

## OFFICIALS.

*Chancellor*.—Sir John H. MacFarland, M.A., LL.D.*Vice-Chancellor*.—Sir John Grice, B.A., LL.B.*President of the Professorial Board*.—Prof. W. A. Osborne, M.B., B.Ch., D.Sc.*Registrar*.—J. P. Bainbridge, F.C.I.S., J.P.

**Degrees conferred**.—B.A., M.A., Litt.D., B.Sc., M.Sc., D.Sc., LL.B., LL.M., LL.D., M.B., B.S., M.D., M.S., B.C.E., B.M.E., B.E.E., B.Mech.E., M.C.E., M.M.E., M.E.B., M.Mech.E., D.Eng., B.D.Sc., D.D.Sc., Mus.Bac., Mus.Doc., B.Agr.Sc., M.Agr.Sc., B.V.Sc., D.V.Sc.

Also Diplomas in Education, Analytical Chemistry, Public Health, Tropical Medicine, Mining, Metallurgy, Architecture, Science in Veterinary Science, Music, and Agriculture.

## PROFESSORS.

FACULTY OF ARTS AND  
EDUCATION.**Professors :**E. J. Nanson, *Mathematics, Pure and Mixed.*C. A. Scutt, *Classical Philology.*R. S. Wallace, *English Language and Literature.*W. R. B. Gibson, *Mental and Moral Philosophy.*E. Scott, *History.*J. Smyth, *Education.***Lecturers :**W. Kerry, *Classics.*E. W. Cornwall, *Classics.*J. H. Mitchell, *Mixed Mathematics.*F. I. Maurice-Carton, *French.*T. J. Smith, *Logic.*J. S. W. Webb, *History.*E. C. W. Kelly, *Political Economy.*J. McK. Stewart, *Philosophy.*A. Lodewyckx, *German.*C. E. Weatherburn, *Mathematics.*A. T. Strong, *English.*H. M. Robinson, *English.*M. S. Sharman, *Teaching of Mathematics and Science.***Lecturers—Continued :**I. D. Marshall, *Teaching of English History.*J. McRae, *General Method and Psychology.*R. Lawson, *Teaching of Languages.*

4 Instructors.

## FACULTY OF LAW.

**Professor :**W. H. Moore, *Law.***Lecturers :**J. E. Mackey, *Equity.*J. R. Maquire, *Wrongs and Procedure.*R. H. Gregory, *Property in Land and Conveyancing.*J. G. Latham, *Contracts and Personal Property.*

## FACULTY OF MEDICINE.

**Professors :**Sir H. Brookes Allen, *Pathology.*W. A. Osborne, *Physiology.*R. J. A. Berry, *Anatomy.***Lecturers :**Sir H. C. Maudsley, *Theory and Practice of Medicine.*F. D. Bird, *Surgery.*



**Lecturers—Continued :**

- F. G. Middleton, *Anatomy*.  
 F. G. Morgan, *Pathology*.  
 G. Horne, *Obstetrics and Gynecology*.  
 C. Bage, *Therapeutics*.  
 F. W. Sinclair, *Public Health*.  
 R. J. Bull, *Bacteriology*.  
 C. H. Mollison, *Forensic Medicine*.  
 Sir J. W. Barrett, *Physiology of Special Senses*.  
 J. F. Wilkinson, *Clinical Physiology*.  
 H. A. S. Newton, *Regional and Applied Anatomy*.  
 A. V. M. Anderson, *Medical Ethics*.  
 L. A. I. Maxwell, *Anesthetics*.  
 F. L. Davies, *Anesthetics*.  
 B. L. Stanton, *Materia Medica and Pharmacy*.  
 9 Instructors.

**FACULTY OF ENGINEERING.****Professor :**

- H. Payne, *Engineering*.

**Lecturers :**

- A. H. Merrin, *Mining*.  
 G. Higgins, *Civil Engineering*.  
 W. A. M. Blackett, *Architecture*.  
 J. S. Gawler, *Architecture*.  
 R. H. Alsop, *Architectural Atelier*.  
 J. T. Lupson, *Surveying*. [Director].  
 E. B. Brown, *Electrical Engineering*.  
 A. J. Higgin, *Metallurgy*.  
 W. N. Kernot, *Engineering Design and Drawing*.  
 J. A. Laing, *Concrete and Reinforced Concrete*.  
 W. Calder, *Country Roads*.  
 A. E. Callaway, *Country Roads*.  
 J. W. S. Crow, *Lubrication*.  
 2 Instructors.

**FACULTY OF VETERINARY SCIENCE.****Professor :**

- H. A. Woodruff, *Veterinary Pathology*.

**Museums.**—Most of the Science Departments have Museums attached to them, particularly Pathology (15,000 specimens), Anatomy, Engineering, Botany, and Biology.

**Libraries.—**

- General Library. Librarian : D. Ulrich, M.A.  
 Medical School Library.

**AFFILIATED INSTITUTIONS.**

Trinity College, Ormond College, Queen's College, Newman College, Australian College of Dentistry.

In addition work at the following is recognized: Melbourne Hospital, Alfred Hospital, St. Vincent's Hospital, Women's Hospital, Children's Hospital, Eye and Ear Hospital, Infectious Diseases Hospital, Hospital for the Insane, Working Men's College, Swinburne Technical College, Ballarat School of Mines, Bendigo School of Mines, College of Pharmacy.

**Lecturers :**

- J. C. Lewis, *Veterinary Anatomy and Surgery*.  
 S. S. Cameron, *Veterinary Hygiene and Dietetics*.  
 G. Sweet, *Veterinary Parasitology*.  
 E. F. J. Bordeaux, *Veterinary Medicine and Obstetrics*.  
 H. R. Seddon, *Veterinary Pathology and Bacteriology and Materia Medica*.  
 1 Instructor.

**FACULTY OF AGRICULTURE.****Professors :**

- D. O. Masson, *Chemistry*.  
 W. E. Agar, *Biology*.  
 E. W. Skeats, *Geology and Mineralogy*.  
 A. J. Ewart, *Botany and Plant Physiology*.  
 T. H. Laby, *Natural Philosophy*.

**Lecturers :**

- A. E. V. Richardson, *Agriculture*.  
 E. J. C. Rennie, *Agricultural Engineering*.  
 W. H. Green, *Chemistry*.  
 A. C. D. Rivett, *Chemistry*.  
 E. J. Hartung, "  
 G. Sweet, *Biology*.  
 E. F. J. Love, *Natural Philosophy*.  
 E. O. Hereus, "  
 W. M. Holmes, "  
 L. E. Hurley, *Histology and Human Embryology*.  
 W. J. Young, *Bio-Chemistry*.  
 H. S. Summers, *Geology*.  
 L. A. I. Maxwell, *Physiology*.  
 E. I. McLennan, *Botany*.  
 5 Instructors.

**FACULTY OF MUSIC.****Professor :**

- W. A. Laver, *Music*.

Several part-time Assistants and Demonstrators.

# **ORMOND COLLEGE**, University of Melbourne (College Reserve). (1879.)

The College is also the Theological Hall of the Presbyterian Church of Victoria, and has for that purpose an independent teaching staff. Normally students of the Theological Hall should have completed a University course in the College, but actually there have in recent years been large departures from this normal condition of affairs. Of the College resident students nine are Theological Hall students and others, five are University Arts students proceeding to the Theological Hall; three of the non-resident students are University students proceeding to the Theological Hall.

*Terms* : As those of University of Melbourne.

*Students* : Resident, 103; non-resident, 58 (1919).

*Budget* (1918):

Receipts: Fees, etc.	..	..	..	£5,644	4	7
Interest on Endowment	..	..	..	915	17	2
<b>Total</b>	..	..	..	£6,560	1	9
Expenditure: Salaries, etc.	..	..	..	£2,373	19	6
Repairs, etc.	..	..	..	427	6	10
Wages, Household, etc.	..	..	..	3,902	6	6
<b>Total</b>	..	..	..	£6,703	12	10

## **OFFICIALS.**

*Master*.—David Kennedy Picken, M.A.

*Vice-Master*.—Horace William Allen, M.A.

*Acting Vice-Master*.—E. D. Ulrich, M.A.

**Degrees and Hoods** as those of University of Melbourne.

## **TUTORS.**

### **Resident :**

O. de R. Foenander, *History and Law*.

F. G. Morgan, *Pathology and Medicine*.

F. G. Middleton, *Anatomy*.

### **Non-Resident :**

C. E. Weatherburn, *Mathematics and Natural Philosophy*.

### **Non-Resident—Continued :**

J. McK. Stewart, *Prayers and Bible Lectures*.

F. H. Campbel, *Chemistry*.

G. V. Buchanan (Miss), *Botany and Zoology*.

I. M. Flinn (Miss), *Philosophy*.

E. Wood (Mrs.), *French and German*.

## **THEOLOGICAL HALL STAFF.**

### **OFFICIALS.**

*President*.—Rev. J. L. Rentoul, M.A., D.D.

*Secretary*.—Rev. D. S. Adam, M.A., D.D.

### **PROFESSORS.**

#### **Professors :**

Rev. J. L. Rentoul, *New Testament Greek*.

Rev. D. S. Adam, *Systematic Theology and Church History*.

#### **Professors—Continued :**

Rev. A. Skene, *Hebrew and Old Testament*.

**Lecturer :**  
Rev. J. Barnaby, *Paidcutics and English Bible*.

Together with the Master of Ormond College, the Chairman of the Theological Hall Committee and Sir John MacFarland (formerly Master of Ormond) constitute the Senators of the Theological Hall.

#### **Libraries.—**

Theological Hall Library. *Librarian* : Rev. A. Skene.

Ormond College Library. Shortly to be amalgamated in the MacFarlane Memorial Library. (Statistics not at the moment available.)

**QUEEN'S COLLEGE**, Melbourne University Reserve. (1888.)

Queen's College is an affiliated College of the University of Melbourne, Victoria.

In the constitution of the Melbourne University provision was made for four affiliated Colleges, and pieces of land of about 10 acres in size were given in trust to the Anglican, Presbyterian, Methodist, and Roman Catholic Churches for this purpose. Queen's College is the College of the Methodist Church, and is governed by a Council appointed by the Methodist Conference of Victoria and Tasmania. All resident students must be under-graduates of the University; but complete freedom of teaching and worship is allowed.

*Terms*: As in the University of Melbourne.

*Students* (1919): 88.

*Budget* (1918):

Income	..	..	..	..	£3,733
Expenditure	..	..	..	..	4,364
Endowment for Scholarships	..	..	..	..	25,000

**OFFICIALS.**

*Master*.—Rev. Edward H. Sugden, M.A., B.Sc., Litt.D.

*President of Council*.—Rev. W. Morley, D.D.

*Vice-President*.—F. J. Cato.

*Secretary*.—Rev. T. B. Reed.

*Bursar*.—W. A. Newton.

**Degrees and Hoods** as in the University of Melbourne.

**LECTURERS.**

Rev. E. H. Sugden, *English Language and Literature*.

E. Lothian (Miss), *Classics*.

E. Wood (Mrs.), *French and German*.

I. M. Flinn (Miss), *Logic and Philosophy*.

S. T. S. Clyne, *History and Economics*.

C. M. T. Stafford, „ „

H. Hewitt, *Matriculation Subjects*.

Rev. A. E. Albiston, *Theology*.

Rev. F. J. Nance, *Hebrew*.

Rev. J. W. Grove, *Hellenistic Greek*.

E. Nelson (Miss), *Mathematics and Natural Philosophy*.

G. Buchanan (Miss), *Biology*.

F. H. Campbell, *Chemistry*.

L. E. Hurley, *Medical Subjects*.

**Museums.**

Museum of Egyptian Antiquities.

Museum of Geological Specimens.

Museum of South Sea Islands Curiosities.

**Libraries.**

General Library of about 10,000 volumes.

Special Library of original editions of the works of the Rev. John Wesley of about 400 volumes.

**NATIONAL MUSEUM**, Melbourne.

*Honorary Director*.—Sir W. Baldwin Spencer, K.C.M.G., F.R.S., D.Sc., Litt.D., Prof. of Biology in the Melbourne University.

*Curator*.—J. A. Kershaw, F.E.S.

*Paleontologist*.—F. Chapman, A.L.S.

*Mineralogist*.—P. B. Nye.

The National Museum contains the State Zoological, Paleontological, Mineralogical and Ethnological collections.

**BOTANIC GARDENS**, Melbourne. (1846)

*Director*.—W. R. Guilfoyle.

The National Herbarium contains the most complete collection of Australian plants in the world.

## MIDDLETOWN (Connecticut).

**WESLEYAN UNIVERSITY**, Middletown, Conn. (1831.)

*Terms* : Two semesters.

*Students* : 415.

*Budget* :

Current Expenses (1917-18)	..	..	\$246,356.70.
Productive Endowment	..	..	\$2,575,223.20.

### OFFICIALS.

*President*.—William A. Shanklin, L.H.D., LL.D.

*Vice-President*.—George M. Dutcher, Ph.D.

*Dean*.—Frank W. Nicolson, M.A.

**Degrees conferred**.—B.A., B.S., M.A., M.S.

### PROFESSORS.

#### Professors :

W. N. Rice, *Geology (Emeritus)*.  
 C. T. Winchester, *English Literature*.  
 M. B. Crawford, *Physics*.  
 A. C. Armstrong, *Philosophy*.  
 W. E. Mead, *English Language*.  
 K. P. Harrington, *Latin*.  
 F. W. Nicolson, *Latin*.  
 C. A. Tuttle, *Economics and Social Science*.  
 O. Kuhns, *Romance Languages*.  
 W. A. Heidel, *Greek*.  
 R. Dodge, *Psychology*.  
 F. E. Farley, *English Literature*.  
 W. G. Cady, *Physics*.  
 R. H. Fife, *German*.  
 G. M. Dutcher, *History*.  
 J. W. Hewitt, *Classics*.  
 E. Fauver, *Physical Education*.  
 L. A. Howland, *Mathematics*.

#### Professors—Continued :

B. H. Camp, *Mathematics*.  
 C. R. Hoover, *Chemistry*.  
 E. C. Schneider, *Biology*.

#### Associate Professors :

C. H. Conley, *Rhetoric*.  
 G. A. Hill, *Chemistry*.  
 P. H. Curts, *German*.  
 A. Mann, jr., *Romance Languages*.  
 H. B. Goodrich, *Zoology*.  
 W. G. Foye, *Geology*.  
 H. M. Wriston, *History*.  
 H. B. Hall, *Economics*.  
 P. Burt, *History*.  
 E. S. Clark, *Romance Languages*.  
 L. P. Rice, *Economics and Social Science*.  
 W. C. Woods, *Biology*.  
 4 Instructors, 6 Assistants, 2 Lecturers, 1 Assistant Professor.

**Post-Graduate Courses**.—A few graduate students each year, to whom are offered the degrees M.A., and M.S.

**Library**.—114,000 bound volumes. *Librarian* : William J. James. M.A.

## MINNEAPOLIS (Minnesota).

**UNIVERSITY OF MINNESOTA**, Minneapolis, Minnesota. (1868.)

*Terms* : Four per year.

*Students* (1917-18) : 5,567.

### OFFICIALS.

*President*.—Marion Leroy Burton, Ph.D., D.D., LL.D.

*Registrar*.—E. B. Pierce, B.A.

*Librarian*.—J. T. Gerould.

**Degrees conferred**.—Ph.D., M.A., M.S., B.S., C.E., E.E., M.E., Architect, LL.B., M.B., M.D., Graduate in Nursing, D.D.S., E.M., Met.E., Phar.Chem., Graduate in Pharmacy, Chem.E.

**Post-Graduate Courses**.—Graduate work in all major fields of sciences, letters and humanities, agriculture, and clinical medicine. In the latter field part of the work is done at Rochester, Minnesota, with the support of the Mayo Foundation and the faculties of the Mayo Clinic.

**Institutes, etc**.—Minnesota Historical Society, St. Paul, Minnesota, with library of Minnesota Academy of Social Sciences.

## MISSOULA (Montana).

**STATE UNIVERSITY OF MONTANA**, Missoula, Montana. (1893.)

In 1913 a legislative enactment was made combining the State University (Missoula, Mont.), the State College of Agriculture and Mechanic Arts (Bozeman, Mont.), the State School of Mines, (Butte, Mont.), and the State Normal School (Dillon, Mont.) into the Greater University of Montana, under the executive control of an officer whose title is Chancellor.

*Terms* : Three regular quarters of 12 weeks each and a summer quarter, including two terms of 6 and 5 weeks respectively.

*Students* : 1,380.

*Budget* :

Maintenance .. .. .	.. .. .	\$250,000.
Buildings and Grounds .. .. .	.. .. .	\$60,000.

### OFFICIALS.

*Chancellor*.—Edward C. Elliott, Ph.D.

*President*.—Edward O. Sisson, Ph.D.

*Vice-President*.—Frederick C. Scheuch, M.E., A.C.

*Dean of Men*.—Richard H. Jesse, jr., Ph.D.

*Dean of Women*.—Mrs. K. W. Jameson, Ph.D.

*Dean of the School of Journalism*.—A. L. Stone, B.S.

*Dean of the School of Forestry*.—Dorr Skeels, B.S.

*Dean of the School of Law*.—C. H. Leaphart, A.B., A.M., LL.B.

*Dean of the School of Music*.—De Loss Smith.

*Dean of the School of Pharmacy*.—C. E. Mollet, Ph.C.

*Registrar and Secretary of the Faculty*.—James B. Speer, B.A., LL.B.

**Degrees conferred.**—B.A., B.Se.

### PROFESSORS.

#### COLLEGE OF ARTS AND SCIENCE.

##### Professors :

H. G. Merriam, *Latin and Greek*.  
S. J. Cook, *Business Administration*.  
F. Corbin, *English*.  
A. C. Coon, *Military Science and Tac-*  
*F. Daughters, Education.* [tics.  
M. J. Elrod, *Biology*.  
R. H. Jesse, jr., *Chemistry*.  
J. E. Kirkwood, *Botany*.  
N. J. Lennes, *Mathematics*.  
P. C. Phillips, *History*.  
J. P. Rowe, *Geology*.  
F. C. Scheuch, *Modern Languages*.  
W. E. Schreiber, *Physical Education*.  
E. O. Sisson, *Education*.  
F. O. Smith, *Psychology*.  
J. H. Underwood, *Economics*.  
E. S. Whitecomb (Miss), *Home Eco-*  
*nomics*.

##### Associate Professor :

W. G. Bateman, *Chemistry*.

##### Assistant Professors :

A. W. Rimes, *Education and Psy-*  
*chology*.  
A. C. Bevan, *Biology*.  
E. F. A. Carey, *Mathematics*.  
E. Clarke (Miss), *Home Economics*.

##### Assistant Professors—Continued :

I. E. Gittings (Miss), *Physical Educa-*  
*tion*.  
P. W. Graff, *Botany*.  
J. W. Howard, *Chemistry*.  
H. S. Hughes (Miss), *English*.  
H. M. Jones, *English*.  
W. N. Jones, *Chemistry*.  
L. Leyden (Miss), *Physical Education*.  
G. F. Lussky, *Modern Languages*.  
A. S. Merrill, *Mathematics*.  
J. E. Miller, *History*.  
A. Orbeck, *English*.  
W. G. Owen, *Biology*.  
F. D. Schwalm, *Fine Arts*.  
R. N. Thompson, *Physics*.  
11 Instructors, 3 Assistants.

#### SCHOOL OF FORESTRY.

##### Professors :

D. Skeels, *Forestry*.  
T. C. Spaulding, *Forestry*.

##### Assistant Professors :

C. F. Farmer, *Forestry*.  
R. R. Fenska      "  
1 Instructor.

#### SCHOOL OF JOURNALISM.

##### Professor :

W. E. Christenson, *Journalism*.



**Assistant Professor :**

R. D. Casey, *Journalism*.  
3 Special Lecturers.

**SCHOOL OF LAW.**

**Professors :**

C. H. Leaphart, *Law*.  
W. L. Pope, *Law*.  
L. M. Simers, *Law*.  
A. N. Whitlock, *Law*.  
1 Special Lecturer.

**SCHOOL OF MUSIC.**

**Professors :**

De Loss Smith, *Music*.  
J. Swenson (Miss), *Piano*.

**Professors—Continued :**

A. H. Weisberg, *Piano*.  
1 Instructor, 2 Assistants.

**Assistant Professor :**

H. M. Gardner (Miss), *Public School Music*.  
2 Assistants.

**SCHOOL OF PHARMACY.**

**Professor :**

C. E. Mollet, *Pharmacy*.

**Assistant Professor :**

F. J. Zaek, *Pharmacy*.  
2 Assistants, 1 Instructor.

**Institute.**—Biological Station, Flathead Lake, Montana.  
**Libraries.**—University Library. Law Library.

**MONTREAL (Canada).**

**McGILL UNIVERSITY**, Montreal, Canada. (1821.)

*Terms :* Two a year.

*Students :* 1,356.

*Budget :* \$892,000,000.

**OFFICIALS.**

*Principal.*—General Sir Arthur Currie, LL.D.

*Vice-Principal.*—C. E. Moyse, B.A., LL.D.

*Secretary and Bursar.*—A. P. S. Glassco, B.Sc.

*Registrar.*—J. A. Nicholson, M.A., LL.D.

**Degrees conferred :**

*Degrees.*

	<i>Hoods.</i>
B.A. - - -	Hood black silk, lined with pale blue silk, and edged with white fur.
B.Sc. - - -	Hood black silk, lined with yellow silk, and edged with white fur.
B.Sc. (Agric.) - - -	Hood black silk, lined with dark green silk, and edged with white fur.
B.C.L. - - -	Hood black silk, lined with French grey silk, and edged with white fur.
LL.B. - - -	Hood black silk, lined with scarlet silk, and edged with white fur.
B.Arch. - - -	Hood black silk, lined with white silk, and edged with white fur.
Mus.Bac. - - -	Hood black silk, lined with pale mauve silk, and edged with white fur.
M.A. - - -	Hood black silk, lined with pale blue silk.
M.Sc. - - -	Hood black silk, lined with yellow silk.
LL.M. - - -	Hood black silk, lined with scarlet silk.
M.D. - - -	Hood scarlet cloth, lined with dark blue silk.
D.D.S. - - -	Hood scarlet cloth, lined with pink silk.
LL.D. - - -	Hood scarlet cloth, lined with white silk.
D.Litt. - - -	Hood scarlet cloth, lined with pale blue silk.
D.Sc. - - -	Hood scarlet cloth, lined with yellow silk.
D.C.L. - - -	Hood scarlet cloth, lined with French grey silk.
Mus.Doc. - - -	Hood scarlet cloth, lined with pale mauve silk.
Ph.D. - - -	Hood scarlet cloth, lined with pale green silk.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

C. E. Moyse, *English Language and Literature*.  
C. W. Colby, *History*.  
H. Walter, *Modern Languages*.  
J. Harkness, *Pure Mathematics*.

**Professors—Continued :**

W. Caldwell, *Moral Philosophy*.  
P. T. Lafleur, *Comparative Literature*.  
J. A. Dale, *Education*.  
H. C. Perrin, *Music*.  
S. Leacock, *Political Economy*.  
A. Willey, *Zoology*.

# Professors—Continued.

- C. A. B. Brockwell, *Hebrew and Semitic Languages*.  
R. F. Ruttan, *Chemistry*.  
F. E. Lloyd, *Botany*.  
S. B. Slack, *Classics*.  
A. S. Eve, *Physics*.  
J. A. Bancroft, *Geology*.  
R. du Roure, *French*.  
J. W. A. Hickson, *Logic and Metaphysics*.  
R. W. Lee, *Roman Law*.  
C. M. Derick (Miss), *Morphological Botany*.

# Associate Professors :

- N. N. Evans, *Chemistry*.  
J. C. Simpson, *Histology and Embryology*.  
C. E. Fryer, *History*.  
J. C. Hemmeon, *Economics*.  
L. King, *Physics*.  
T. R. Davies, *Mathematics*.  
A. N. Shaw, *Physics*.  
A. R. Gordon, *Hebrew*.  
V. J. Harding, *Biological and Physiological Chemistry*.  
C. Lichtenstein (Miss), *Music*.  
J. A. Gray, *Physics*.  
C. Macmillan, *English*.  
F. M. G. Johnson, *Chemistry*.

# Assistant Professors :

- J. L. Morin, *Modern Languages*.  
R. P. D. Graham, *Mineralogy*.  
W. D. Tait, *Psychology*.  
C. T. Sullivan, *Mathematics*.  
V. K. Krieble, *Chemistry*.  
E. T. Lambert, *Modern Languages*.  
N. E. Wheeler, *Physics*.  
H. E. Reilly  
G. W. Latham, *English*.  
13 Lecturers, 10 Demonstrators.

# FACULTY OF APPLIED SCIENCE.

## Professors :

- F. D. Adams, *Geology and Paleontology*.  
J. B. Porter, *Mining Engineering*.  
A. Stansfield, *Metallurgy*.  
D. A. Murray, *Applied Mathematics*.  
H. M. Mackay, *Civil Engineering*.  
L. A. Herdt, *Electrical Engineering*.  
E. Brown, *Applied Mechanics and Hydraulics*.  
R. Traquair, *Architecture*.  
P. E. Nobbs, *Design*.

## Associate Professors :

- H. F. Armstrong, *Freehand Drawing and Descriptive Geometry*.  
A. R. Roberts, *Mechanical Engineering*.  
C. M. McKergow, *Mechanical Engineering*.  
C. V. Christie, *Electrical Engineering*.  
J. W. Bell, *Mining Engineering*.

# Assistant Professors :

- C. Batho, *Applied Mechanics and Mathematics*.  
H. M. Lamb, *Civil Engineering and Lecturer in Architecture*.  
E. G. Burr, *Electrical Engineering*.  
A. J. Kelly, *Surveying*.  
J. Weir, *Surveying*.  
13 Lecturers, 13 Demonstrators.

# FACULTY OF LAW.

## Professors :

- R. W. Lee, *Roman Law*.  
A. McGoun, *Civil and Municipal Law*.  
W. de M. Marler, *Civil Law*.  
E. Lafleur, *Public International Law*.  
Hon. Sir C. Davidson, *Criminal Law*.  
A. Geoffrion, *Civil Law*.  
G. W. McDougall, *Commercial and Private International Law*.  
Hon. Mr. Justice P. B. Mignault, *Legal Ethics*.  
E. Fabre Surveyer, *Civil Procedure*.  
E. E. Howard, *Commercial Law*.  
Hon. Mr. Justice, R. A. E. Green-shields, *Associate Professor of Criminal Law*.  
3 Lecturers.

# FACULTY OF MEDICINE.

## Professors :

- H. S. Birkett, *Oto-Laryngology*.  
A. D. Blackader, *Pharmacology and Therapeutics, and of Pediatrics*.  
F. G. Finley, *Medicine and Clinical Medicine*.  
H. A. Lafleur, *Medicine and Clinical Medicine*.  
G. E. Armstrong, *Surgery and Clinical Surgery*.  
T. A. Starkey, *Hygiene*.  
J. W. Stirling, *Ophthalmology*.  
C. F. Martin, *Medicine and Clinical Medicine*.  
A. B. J. Moore, *Materia Medica and Pharmacy*.  
W. W. Chipman, *Obstetrics*.  
J. A. Hutchison, *Surgery*.  
D. D. McTaggart, *Medical Jurisprudence*.  
S. E. Whitnall, *Anatomy*.  
J. Tait, *Physiology*.  
A. W. Thornton, *Crown and Bridge Work*.  
F. G. Henry, *Dental Pathology, Dental Materia Medica and Therapeutics*.  
F. H. A. Baxter, *Operative Dentistry*.  
J. B. Morrison, *Orthodontia*.  
G. S. Cameron, *Prosthetic Dentistry*.  
6 Associate Professors, 5 Assistant Professors, 8 Lecturers, 1 Demonstrator.

# FACULTY OF AGRICULTURE.

## Professors :

F. C. Harrison, *Bacteriology*.  
W. Lochhead, *Biology*.  
C. J. Lynde, *Physics*.  
J. F. Snell, *Chemistry*.

## Professors—Continued.

H. Barton, *Animal Husbandry*.  
T. G. Bunting, *Horticulture*.  
R. Summerby, *Cereal Husbandry*.  
12 Lecturers, 1 Instructor, 3 Assistants,  
1 Veterinarian, and 9 Assistants.

**Post-Graduate Courses.**—Leading to M.A., M.Sc., LL.M., D.C.L., and Ph.D.

## Museums.—

Museum of Architecture.  
Museum of Hygiene. *Director* : T. A. Starkey.  
Museum of Pathology. *Director* : Horst Oertel.  
Peter Redpath Museum of Natural History. *Hon. Curator* : A. Willey.

**University Library** of 165,660 volumes and 25,000 pamphlets. *Librarian* : G. R. Lomer, M.A., Ph.D.

## AFFILIATED INSTITUTIONS.

Acadia University, Wolfville, N.S.  
Alberta University, Edmonton.  
Mount Allison University, Sackville, N.B.  
The University of St. Francis Xavier's College, Antigonish, N.S.  
Royal Military College, Kingston.  
Congregational College of Canada, Montreal.  
Diocesan College of Montreal.  
Presbyterian College of Montreal.  
Wesleyan College of Montreal.

## UNIVERSITY OF MONTREAL, Canada. (1876.)

(Formerly Laval University Montreal Branch.)

The University, which was only a Branch of the Quebec Laval University from 1876 to 1919, received its canonical independence from Rome in 1919. It is expected that the Provincial Legislature will grant its civil independence at the next session. The denomination is Roman Catholic, and most of the Lectures are given in French.

*Terms* : Two a year. *Students* : 4,205.  
*University Budget* : Each Faculty and School has its own.

## OFFICIALS.

*Chancellor.*—His Grace Mgr. Paul Bruchési, Archbishop of Montreal.  
*President.*—His Lordship Mgr. Georges Gauthier, Auxiliary Bishop to His Grace.  
*General Secretary.*—Canon Émile Chartier.

Board of 12 Governors.

**Degrees conferred.**—D.D., C.L.L., L.L.L., LL.D., M.D., B.L., B.Sc., B.A., M.A., Ph.D., C.I., B.A.S., B.Arch., V.S.D., D.S.D., B.Ph., D.Ph., B.Agr.Sc., D.Agr.Sc., L.C. Also different Diplomas for the other Schools.

## PROFESSORS.

### FACULTY OF ARTS.

#### Professors :

R. Gautheron, *French Literature*.  
E. Montpetit, *Economy*.  
G. Vanier  
J. B. Legacé, *History of Art*.  
N. Charbonneau, *Theory of Gregorian Chants*.  
A. Pineault, *Theory of Gregorian Chants*.  
E. Chartier, *Pedagogy*.  
L. Groulx, *History of Canada*.

### FACULTY OF MEDICINE.

#### Professors :

D. Mignault, *Anatomy*.  
E. Virolle

#### Professors—Continued:

E. Latreille, *Pathological Anatomy*.  
C. St. Pierre  
N. Delorme, *Practical Anatomy*.  
G. Moreau  
A. Ferrou  
A. Paré  
G. Lefebvre  
R. Toupin  
A. Bernier, *Bacteriology*.  
F. Jeannotte  
H. Aubry  
A. Rivet, *Toxicology*.  
G. Baril  
H. Larouche  
Z. Rhéaume, *Operative Surgery*.

### Professors—Continued:

- A. Gagnon, *Operative Surgery*.  
R. Archambault, " "  
S. Boucher, *Histology*.  
A. Laurence, *Pharmacy*.  
E. Aselin, *Physiology*.  
E. Persillier-Lachapelle, *History of Medicine*.  
A. Mercier, *History of Medicine*.  
C. Valin, *Hygiene*.  
J. Baudouin, " "  
E. Fortier, *Materia Medica*.  
G. Mignoult, " "  
T. Parizeau, *Surgical Pathology*.  
B. Bourgeois, " "  
A. Lesage, *Internal Pathology*.  
D. Masson, *Applied Therapeutics*.

### FACULTY OF THEOLOGY.

#### Professors:

- H. Jeannotte, *Ecclesiastical Music*.  
J. E. Dorvaux, *Canonical Law and Moral Theology*.  
A. Pasquier, *Canonical Law and Moral Theology*.  
F. Duchemin, *Canonical Law and Moral Theology*.  
B. Gattet, *Holy Writing*.  
V. Jacob, " "  
L. François, *Holy Writing and French*.  
V. Many, *Hebrew*.  
L. Perrin, *Ecclesiastical History*.  
R. Neveau, " "  
R. Allard, *Diagnostic Theology*.  
F. Lelandais, *Pastoral Theology*.

### FACULTY OF LAW.

#### Professors:

- V. Morin, *Administrative Law*.  
Sir A. Lacoste, *Commercial and Maritime Law*.  
A. Perrault, *Commercial and Maritime Law*.  
P. Cousineau, *Constitutional and Municipal Law*.  
Judge C. Chamilly de Lorimier, *Criminal Law*.  
S. Morin, *Criminal Law*.  
Sir H. Archambeault, *Financial, Commercial, and Industrial Legislation*.  
Hon. N. Perodeau, *Financial, Commercial, and Industrial Legislation*.  
Sir L. Jette, *Civil Law*.  
Judge P. Demers, *Civil Law*.  
Judge E. Lafontaine, *Civil Law*.  
Hon. R. Lemieux, *International Law and History of Law*.  
E. Montpetit, *Roman Law and Political Economy*.  
R. Taschereau, *Civil Procedure*.

### SCHOOL OF APPLIED SCIENCE.

- A. Pelletier, *Higher Algebra*.  
J. Poivert, *Architecture*.  
J. Haynes, *Constructional Architecture*.

### School of Applied Science—Continued:

- A. Beaugrand-Champagne, *History of Architecture*.  
P. Charton, *Topography*.  
E. Beaupré, *Differential and Integral Calculus*.  
J. Lelau, *Hydraulics*.  
L. Bourgouin, " "  
A. Quéva, " "  
A. S. Baulne, *Construction of Metals*.  
E. Dyonnet, *Design*.  
J. Haynes, " "  
E. Beaupré, " "  
A. Beaugrand-Champagne, *Design*.  
A. Villeneuve, *Electricity*.  
A. Frigon, *Electrotechnics*.  
Abbe O. Maurault, *French*.  
T. Lafrenière, *Sanitary Science*.  
C. Manseau, *Analytical Geometry and Geodesy*.  
A. Fyen, *Descriptive Geometry*.  
A. Larue, " "  
E. Montpetit, *Industrial Legislation*.  
A. Fyen, *Mathematics*.  
H. Labrecque, " "  
A. Pelletier, " "  
E. Desaulniers, *Mechanics*.  
E. Dyonnet, *Modelling*.  
E. Dulieux, *Mines*.  
A. Mailhot, " "  
A. Dollo, *Physics*.

### SCHOOL OF COMPARATIVE MEDICINE.

- T. Daubigny, *Anatomy*.  
L. J. Demers, *Pathological Anatomy*.  
O. Laroche, *Practical Anatomy*.  
C. Reid, *Chemistry of Foods*.  
W. Derome, *Physiology*.  
E. Benoit, *Materia Medica*.  
E. Persillier-Lachapelle, *Legal Medicine*.  
L. P. Lorrain, *Obstetrics*.  
D. Gagnéux, *Internal Pathology*.  
A. Dauth, *General Pathology*.  
G. Dujardin, *Veterinary Hygiene*.

### SCHOOL OF DENTAL SURGERY.

- A. Duhamel, *General Anatomy*.  
A. Beauchamp, *Anesthetics*.  
R. Hébert, *Auscultation*.  
H. Aubry, *Bacteriology*.  
J. Nolin, *Operative Dentistry*.  
L. de Guise, " "  
J. Décarie, *Histology*.  
Avocat A. Marsan, *Dental Jurisprudence*.  
A. Larose, *Materia Medica*.  
T. Lassencur, *Radiology*.  
E. Dubeau, *Dental Pathology*.  
H. Dufresne, *Physiology*.  
H. Laplante-Courville, *Physics and Chemistry*.  
J. Gendreau, *Dental Anatomy and Physiology*.  
W. Saint-Pierre, *Dental Anatomy and Physiology*.



# INSTITUTE OF AGRICULTURE

(see La Trappe).

## SCHOOL OF COMMERCE.

C. Manscau, *Commercial Algebra*.  
 P. Malone, *English*.  
 C. Manscau, *Commercial Arithmetic*.  
 P. Riou, *General Arithmetic*.  
 H. Laplante-Courville, *Chemistry*.  
 V. Doré, *Accountancy*.  
 L. Favreau, "  
 P. Malone, *Commercial Correspondence*  
 (*English*).  
 L. Lorrain, *Commercial Correspondence*  
 (*French*).  
 A. Dollo, *Design*.

## School of Commerce—Continued :

C. Laurendeau, *Civil Law*.  
 H. Archambeault, *Commercial Law*.  
 A. Garay-Porro, *Spanish*.  
 L. Lorrain, *French*.  
 H. Laureys, *Economic Geography*.  
 L. Groulx, *Commercial History*.  
 G. Nelli, *Italian*.  
 A. Giroux, *Customs Law*.  
 V. Doré, *Commercial Operations*.  
 T. Marot  
 E. Vidricaire, "*Commercial Operations*.  
 O. Gauthier, *Moral Philosophy*.  
 A. Dollo, *Physics*.  
 E. Fontaine, *Advertising*.  
 E. Montpetit, *Economic Science*.  
 H. Laureys, *Technology*.

**Post-Graduate Courses.**—School of Pedagogy, for teachers of Primary Education. Vacation Lecturers, for the teachers of Secondary Education.

**Libraries and Librarians, etc.**—General Library, 80,000 volumes. *Librarian:* Canon Emile Chartier.

Each Faculty and School has its own private library. *Librarians:* Antonio Perrault (Law); Dr. Philippe Chagnon (Medicine); Rod Barthéleme Gattet, P.S.S. (Divinity).

## AFFILIATED INSTITUTIONS.

Divinity School.  
 Polytechnic (Civil Engineering and Architecture).  
 Faculty of Commerce.  
 Agricultural College.  
 School of Music.  
 School of Drawing.  
 School of Domestic Science.  
 11 Colleges for boys (High School and Arts Course).  
 Notre Dame Ladies' College.

**ÉCOLE DE PHARMACIE, UNIVERSITÉ DE MONTREAL, Montreal.** (1906.)

*Terms:* September to April.

*Students:* 200.

## OFFICIALS.

*President.*—Joseph Contant, Ph.D.  
*Vice-President.*—J. E. W. Lecours.  
*Secretary-Director.*—A. J. Laurence.  
**Degrees conferred.**—Ph.B., Ph.D.

## PROFESSORS.

J. Constant, <i>Pharmaceutical Jurisprudence</i> .	H. L. Courville, <i>Analytical Chemistry</i> .
J. E. W. Lecours, <i>Materia Medica</i> .	E. Vadboncoeur, <i>Pharmacy</i> .
A. J. Laurence, <i>Bio-Chemistry and Pharmacy</i> .	A. D. Quintin, <i>Pharmaceutical Physics</i> .
H. Lanctot, <i>Analytical Chemistry</i> .	J. Bontin, <i>Toxicology</i> .
	J. Flahault, <i>Organic Chemistry</i> .
	H. Pilon, <i>Botany</i> .

**ROYAL CANADIAN ACADEMY OF ARTS, 255, Bleury St., Montreal.** (1880.)

**Objects.**—To further the cause of Fine Arts in Canada. Comprises 30 Academicians and 47 Associates.

## OFFICIALS.

*President.*—Homer Watson. *Treasurer.*—G. A. Reid.  
*Vice-President.*—Edward Maxwell. *Secretary.*—E. Dyonnet.



**MORGANTOWN (West Virginia).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—J. L. Coulter.**MOSCOW (Idaho).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—E. J. Iddings.**MOUNTAIN GROVE (Missouri).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—F. W. Faurot.**MOUNT HAMILTON (California).****LICK OBSERVATORY, Mount Hamilton, Santa Clara County, California.**

The Lick Observatory is a Research Department of the University of California. James Lick's first deed of trust was executed in 1874, and the Observatory was completed and its active research work begun in 1888.

**STAFF.***Director and Astronomer.*—William Wallace Campbell.*Astronomers.*—

Richard Hawley Tucker.

William H. Wright.

Robert Grant Aitken.

Heber D. Curtis.

*Associate Astronomer.*—Joseph H. Moore.*Acting Astronomer (Santiago, Chile).*—George F. Paddock.

Three Assistants (one in Chile). Five Fellows.

*Secretary.*—Mrs. A. G. Marshall.**Publications.**—

Publications of the Lick Observatory; quarto, Vols. I. to XIII.

Lick Observatory Bulletin; quarto, Vol. X. current.

Contributions from the Lick Observatory; octavo, Nos. 1 to 5. (Discontinued.)

**Library.**—Reference and astronomical, about 8,500 volumes.

The Mills Observatory (on the summit of Cerro San Cristobal, Santiago, Chile, Dr. Paddock in charge), is a temporary branch of the Lick Observatory.

**MYSORE (India).****UNIVERSITY OF MYSORE, Mysore, India. (1916.)**

Constituent Colleges:

Maharaja's College, Mysore.

Central College, Bangalore.

Maharani's Women's College, Mysore.

College of Engineering, Bangalore.

*Terms:* Two a year—January to April, and July to December.*Students:* 737.*Budget:* The University is State-supported except for fees and endowments.

Estimated Receipts .. .. Rs. 9,71,555

Estimated Expenditure .. .. Rs. 8,96,087

**OFFICIALS.**

*Chancellor.*—Col. Sir Sri Krishnaraja Wadiyar Bahadur, G.C.S.I., His Highness the Maharaja of Mysore.

*Pro-Chancellor.*—Sir Sri Kantirava Narasimharaja Wadiyar Bahadur, G.C.I.E., His Highness the Yuvaraja of Mysore.

*Vice-Chancellor.*—Rajamantra Pravina, H. V. Nanjundayya, M.A., M.L., C.I.E.

*Officiating Registrar.*—V. Subrahmanyadren, B.A.

## Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. -	Black with yellow lining.
B.Sc. -	Yellow with black silk lining.
M.A. -	Black with yellow lining and yellow border.
M.Sc. -	Yellow with black silk lining and black border.
B.T. -	Black with blue silk lining.
D.Litt. -	Sky blue.
D.Sc. -	Dark red.

## PROFESSORS.

A. B. Mackintosh, *English*.  
 J. C. Rollo                   "  
 F. R. Sell                   "  
 E. G. McAlpine           "  
 S. G. Hensman (Mrs.), *English*.  
 M. Hiriyanra, *Sanskrit*.  
 R. Mookerji, *History*.  
 K. Iyengar               "  
 N. S. Subba Rao, *Economics*.  
 A. R. Wadia, *Philosophy*.  
 S. Radhakrishnan, *Philosophy*.  
 K. T. Shah, *Commerce*.

E. P. Metcalfe, *Physics*.  
 F. L. Usher, *Chemistry*.  
 M. G. S. Rao           "  
 W. T. Narayana Iyengar, *Mathematics*.  
 V. S. Sambasiva Iyer, *Geology*.  
 C. R. Narayana Rao, *Zoology*.  
 M. A. Sampathkumaran, *Botany*.  
 4 Junior Professors, 5 Assistant Professors, 5 Tutors, 6 Lecturer, 2 Visiting Lecturers, 9 Demonstrators. 9 Pandits, 2 Munshis.

**Post-Graduate Courses.**—M.A. courses in Arts subjects at the Maharaja's College, Mysore, and M.Sc. courses in Science subjects at the Central College, Bangalore. Facilities are being given for post-graduate research work.

**Institutes, Museums, and Learned Societies.**—Both at Mysore and Bangalore, University Unions have been instituted and accommodated in commodious buildings.

A Museum is being organized. There is a Publication Bureau to encourage the publication of original works, and an Extension Lecture Committee to organize University Extension Lectures for the benefit of the public.

**Libraries.**—In addition to the libraries attached to the several constituent Colleges, and the several class libraries, there are two libraries, the University Library at Mysore and the Oriental Library, comprising manuscripts and several valuable books on Oriental literature.

*Librarian of University Library* : N. Narasimha Moorthy, M.A., B.L.

*Curator of Oriental Library* : R. Shama Sastry, B.A.

## NASHVILLE (Tennessee).

VANDERBILT UNIVERSITY, Nashville, Tennessee. (1873.)

*Terms* : Three a year.

*Students* : 1,000.

*Budget* : \$300,000.

## OFFICIALS.

*Chancellor.*—J. H. Kirkland, LL.D., D.C.L., Ph.D.

*President.*—W. R. Cole.

*Vice-Presidents.*—G. B. Winton, W. T. Sanders.

*Bursar.*—J. E. Hart.

*Registrar.*—Mrs. M. W. Haggard.

**Degrees conferred.**—B.S., M.S., D.Se., B.A., M.A., Ph.D., B.E., C.E., M.E., B.D., LL.B., M.D., Ph.G., Ph.C., D.D.S.

## PROFESSORS.

## COLLEGE OF ARTS AND SCIENCE.

## Professors:

H. C. Tolman, *Greek Language and Literature*.  
 J. Daniel, *Physics*.  
 L. C. Glenn, *Professor of Geology*.  
 E. Mims, *Professor of English Language and Literature*.

## Professors—Continued :

B. E. Young, *Romance Languages and Literature*.  
 W. L. Fleming, *History*.  
 J. H. Ransom, *Chemistry*.  
 G. P. Anderson, *Military Science and Tactics*.  
 J. M. Buckinridge, *Chemistry*.

# Associate Professors :

- A. M. Harris, *Public Speaking and Debate.*  
R. B. Steele, *Latin.*  
H. C. Sanborn, *Philosophy.*  
E. E. Reinke, *Biology.*  
G. W. Dyer, *Economics and Sociology.*  
G. P. Jackson, *German.*  
G. R. Mayfield, *German.*

# Assistant Professors :

- C. M. Sarratt, *Mathematics.*  
E. L. Johnson, *Latin and Greek.*  
W. C. Curry, *English.*  
W. P. Ott, *Mathematics.*

## SCHOOLS OF MEDICINE, PHARMACY, AND DENTISTRY.

### Professors :

- J. T. McGill, *Organic Chemistry, and Dean of the School of Pharmacy.*  
D. Eve, *Surgery and Clinical Surgery.*  
J. A. Witherspoon, *Medicine and Clinical Medicine.*  
G. H. Price, *Diseases of the Eye, Ear, Nose, and Throat.*  
W. H. Witt, *Medicine and Clinical Medicine.*  
J. T. Altman, *Obstetrics.*  
R. A. Barr, *Surgery and Clinical Surgery.*  
L. E. Bureh, *Gynecology.*  
W. Litterer, jr., *Bacteriology.*  
W. A. Bryan, *Surgery, Clinical Surgery, and Oral Surgery.*  
O. H. Wilson, *Diseases of Children.*  
M. C. McGannon, *Surgery and Clinical Surgery.*  
S. S. Crockett, *Nervous and Mental Diseases.*  
J. P. Keller, *Therapeutics.*  
A. N. Hollabaugh, *Obstetrics.*  
B. F. Hambleton, *Physiology and Pharmacology.*  
J. M. King, *Dermatology and Electro-Therapeutics.*  
R. O. Tucker, *Obstetrics.*  
W. D. Haggard, *Surgery and Clinical Surgery.*  
T. H. Wood, *Diseases of the Eye, Ear, Nose, and Throat.*  
R. Caldwell, *Surgical Anatomy.*  
P. Bromberg, *Genito-Urinary Surgery.*  
M. Glasgow, *Therapeutics.*  
W. E. Hibbett, *Preventive Medicine and Hygiene.*  
G. M. Curtis, *Microscopic Anatomy.*  
B. T. Terry, *Pathology.*  
E. A. Ruddiman, *Materia Medica and Pharmacy.*  
H. W. Morgan, *Operative Dentistry.*  
J. A. Dale, *Prosthetic Dentistry, Crown and Bridge Work.*

### Professors—Continued :

- L. G. Noel, *Clinical Dentistry and Dental Medicine.*  
R. B. Bogle, *Oral Hygiene, Radiography, and Exodontia.*  
Y. W. Haley, *Materia Medica, Therapeutics, and Anesthesia.*  
J. H. Phillips, *Dental Anatomy and Operative Technic.*

### Associate Professors :

- D. Eve, jr., *Surgery.*  
A. W. Harris, *Nervous Diseases and Instructor in Medicine.*  
H. M. Tigert, *Gynecology.*  
W. McCabe, *Surgery.*  
O. N. Bryan, *Medicine.*  
W. A. Oughterson, *Medicine.*  
S. J. Ross, *Bacteriology, and Pathology.*  
O. A. Oliver, *Orthodontia.*

### Assistant Professors :

- J. Witherspoon, *Medicine.*  
H. Cummins, *Microscopic Anatomy.*  
J. F. Gallagher, *Gynecology.*  
C. N. Cowden      "

## SCHOOL OF ENGINEERING.

### Professors :

- W. H. Schurman, *Pure and Applied Mathematics.*  
C. S. Brown, *Mechanical Engineering.*

### Assistant Professor :

- R. H. McNeilly, *Civil Engineering.*

## SCHOOL OF LAW.

### Professors :

- J. B. Keeble, *Law, and Dean of the School of Law.*  
W. K. McAllister, *Law.*  
E. T. Seay, *Law.*  
F. Hall, *Law.*  
W. C. Cherry, *Law.*  
T. H. Malone      "  
M. P. O'Connor      "  
J. W. Moore      "  
H. B. Sehermerhorn, *Law.*

### Assistant Professor :

- A. S. Dabney, *Medical Jurisprudence.*

## SCHOOL OF RELIGION.

### Professors :

- W. F. Tillett, *Systematic Theology, Religion.*  
O. E. Brown, *Biblical and Ecclesiastical History.*  
J. H. Stevenson, *Hebrew and Old Testament Exegesis.*  
H. B. Carre, *Biblical Theology and English Exegesis.*  
C. A. Scott, *Church History and Missions.*  
39 Instructors, Fellows, and Lecturers,  
32 Demonstrators and Assistants.

**Post-Graduate Courses.**—Leading to M.A., M.S., Ph.D., and D.Sc. degrees.

**Library.**—University Library. Contains 71,000 volumes.

**Museums.**—

Museum of Theology.

Astronomical Observatory.

**NATAL, UNIVERSITY OF.** *See* PIETERMARITZBURG.

**NEBRASKA, UNIVERSITY OF.** *See* LINCOLN.

**NEBRASKA UNIVERSITY COLLEGE OF MEDICINE.** *See* OMAHA.

**NEVADA UNIVERSITY.** *See* RENO.

**NEWARK (Delaware).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—H. Hayward.

**NEW BRUNSWICK UNIVERSITY.** *See* FREDERICTON.

**NEW BRUNSWICK (New Jersey).**

**RUTGERS COLLEGE.** (The State University of New Jersey.)

Founded as Queen's College, 1766.

*Students:* Men, 625; Women, 125; total in all affiliated branches, approximately 1,300.

*Terms:* Two Semesters a year.

**OFFICIALS.**

*President.*—W. H. S. Demarest, D.D., LL.D.

*Dean.*—Professor Louis Bevier, Ph.D.

*Registrar.*—Luther H. Martin.

**Degrees conferred.**—B.A., Litt.B., B.Sc., M.A., M.Sc., Ph.D., C.E., E.E., M.E., Cer.A.

No particulars of Teaching Staff received.

**Post-Graduate Courses** in all Departments.

**Library.**—Voorhees Library, 102,300 volumes.

**Museums.**—Geological Museum and Departmental Collections.

**Learned Societies.**—Phi Beta Kappa.

**AFFILIATED INSTITUTIONS.**

New Jersey State Experiment Station.

New Jersey State College for Women.

Summer Station, State University of New Jersey.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—J. G. Lipman.

**NEWCASTLE.**

**ARMSTRONG COLLEGE.** *See* DURHAM.

**NEW HAVEN (Connecticut).**

**YALE UNIVERSITY,** New Haven, Conn. (1701.)

*Terms:* Two per year.

*Students:* 1916-17, 2,667; 1917-18, 1,627; 1918-19, 2,051.

*Budget:* 1917-18, \$1,846,000.00.      1918-19, \$2,000,000.00.

## OFFICIALS.

*President.*—Arthur Twining Hadley, Ph.D., LL.D.*Acting Provost.*—Rev. William Adams Brown, Ph.D., D.D.*Treasurer.*—George Parmly Day, M.A.*Bursar.*—Frederic B. Johnson, B.A.*Secretary.*—Rev. Anson Phelps Stokes, D.D.*Assistant Secretary.*—Minott A. Osborn, M.A.*Chairman of the Committee on Admission.*—Robert N. Corwin, Ph.D.

## YALE COLLEGE.

*Dean.*—Frederick S. Jones, LL.D.*Registrar.*—A. K. Merritt, B.A.

## SHEFFIELD SCIENTIFIC SCHOOL.

*Director.*—Russell H. Chittenden, Ph.D., LL.D., Sc.D.*Registrar.*—Loomis Havemeyer, Ph.D.

## THE GRADUATE SCHOOL.

*Dean.*—Wilbur L. Cross, Ph.D.

## THE SCHOOL OF MEDICINE.

*Dean.*—George Blumer, M.D.

## THE SCHOOL OF RELIGION.

*Dean.*—Rev. Charles R. Brown, D.D., LL.D.

## THE SCHOOL OF LAW.

*Dean.*—Thomas W. Swan, M.A., LL.B.

## THE SCHOOL OF THE FINE ARTS.

*Dean.*—William S. Kendall, M.A., N.A.

## THE SCHOOL OF MUSIC.

*Dean.*—Horatio Parker, M.A., Mus.D.

## THE SCHOOL OF FORESTRY.

*Dean.*—James W. Toumey, M.S., M.A.

## UNIVERSITY LIBRARY.

*Librarian.*—Andrew Keogh, M.A.

**Degrees and Hoods.**—The University colour (bright blue, similar to Oxford blue, combined with the following universal colours. B.A., B.S., Ph.B., M.S., gold-yellow; C.E., gold-yellow; M.E., gold-yellow; E.M., gold-yellow; E.E., gold-yellow; Met.E., gold-yellow; M.A., white; Ph.D., dark blue; B.F.A., brown; Mus.B., pink; M.F., russet; M.D., green; LL.B., purple; LL.M., purple; D.C.L., purple; Jur.D., purple; B.D., scarlet.

*Honorary Degrees.*—D.D., scarlet; Jur.D., purple; M.A., white; Sc.D., gold-yellow; Litt.D., white; LL.D., purple; Mus.D., pink.

## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

W. C. Abbott, *History*.T. S. Adams, *Political Economy*.C. McL. Andrews, *American History*.R. P. Angier, *Psychology*.W. B. Bailey, *Practical Philanthropy*.C. M. Bakewell, *Philosophy*.H. Bingham, *Latin-American History*.A. L. Bishop, *Business Administration*.

## Professors—Continued :

C. C. Clarke, *French*.Rev. A. T. Clay, *Assyriology and Babylonian Literature*.A. S. Cook, *English Language and Literature*.R. N. Corwin, *German*.W. L. Cross, *English*.C. Day, *Economic History*.G. M. Duncan, *Logic and Metaphysics*.



**Professors—Continued :**

- F. R. Fairchild, *Political Economy*.  
 H. W. Farnam, *Economics*.  
 M. Farrand, *History*.  
 I. Fisher, *Political Economy*.  
 T. D. Goodell, *Greek Language and Literature*.  
 G. Gruener, *German*.  
 A. M. Harmon, *Greek and Latin*.  
 G. L. Hendrickson, *Latin and Greek Literature*.  
 E. W. Hopkins, *Sanskrit and Comparative Philology*.  
 A. Johnson, *American History*.  
 A. G. Keller, *Science of Society*.  
 H. R. Lang, *Romance Languages and Literature*.  
 C. M. Lewis, *English Literature*.  
 F. B. Luquiens, *Spanish*.  
 C. W. Mendell, *Latin and Greek*.  
 G. H. Nettleton, *English*.  
 W. L. Phelps, *English Literature*.  
 H. McL. Reynolds, *Greek Language and Literature*.  
 A. K. Rogers, *Philosophy*.  
 C. Seymour, *History*.  
 C. B. Tinker, *English Literature*.  
 C. C. Torrey, *Semitic Languages*.  
 F. M. Warren, *Modern Languages*.  
 J. C. Adams, *English*.  
 W. G. Anderson, *Gymnasium*.  
 H. S. Canby, *English*.  
 H. A. Farr, *German*.  
 E. Huntington, *Geography*.  
 A. Keogh, *Bibliography*.

**Assistant Professors:**

- K. I. Asakawa, *History of Japanese Civilization*.  
 P. V. C. Baur, *Classical Archeology*.  
 C. A. A. Bennett, *Philosophy*.  
 J. M. Bordan, *English*.  
 P. W. Bidwell, *Economics*.  
 C. F. T. Brooke, *English*.  
 E. H. Cameron, *Education*.  
 A. H. Corley, *Spanish*.  
 J. R. Crawford, *English*.  
 W. H. Durham, *English*.  
 E. S. Furniss, *Political Economy*.  
 R. H. Gabriel, *History*.  
 R. H. George, "  
 C. H. Haring, "  
 H. G. Hayes, *Political Economy*.  
 S. B. Hemingway, *English*.  
 R. T. Hill, *French*.  
 H. M. Hubbell, *Greek and Latin*.  
 J. W. D. Ingersoll, *Latin*.  
 R. S. Kirby, *Drawing and Descriptive Geometry*.  
 G. G. MacCurdy, *Prehistoric Archeology*.  
 L. Mason, *English*.  
 S. K. Mitchell, *History*.  
 G. R. Montgomery, *French*.

**Assistant Professors—Continued :**

- F. E. Pierce, *English*.  
 F. W. Pitman, *History*.  
 E. B. Reed, *English*.  
 E. E. Robinson, *History*.  
 E. A. Saliers, *Accounting*.  
 C. F. Schreiber, *German*.  
 R. B. Westerfield, *Political Economy*.  
 F. W. Williams, *Modern Oriental History*.

**FACULTY OF SCIENCE.**

**Professors :**

- B. B. Boltwood, *Radio-Chemistry*.  
 L. P. Breckenridge, *Mechanical Engineering*.  
 E. W. Brown, *Mathematics*.  
 H. A. Bumstead, *Physics*.  
 W. R. Coe, *Biology*.  
 A. W. Evans, *Botany*.  
 H. W. Foote, *Physical Chemistry*.  
 H. E. Gregory, *Geology*.  
 T. B. Johnson, *Organic Chemistry*.  
 J. Johnston, *Chemistry*.  
 R. S. Lull, *Vertebrate Paleontology*.  
 C. H. Mathewson, *Metallurgy and Metallography*.  
 G. E. Nichols, *Botany*.  
 E. F. Nichols, *Physics*.  
 A. Petrunkevitch, *Zoology*.  
 J. Pierpont, *Mathematics*.  
 L. V. Pirsson, *Physical Geology*.  
 C. Schuchert, *Paleontology and Historical Geology*.  
 C. F. Scott, *Electrical Engineering*.  
 P. F. Smith, *Mathematics*.  
 J. C. Tracy, *Civil Engineering*.  
 C. J. Tilder, *Engineering Mechanics*.  
 H. L. Wells, *Analytical Chemistry*.  
 L. L. Woodruff, *Biology*.  
 J. Zeleny, *Physics*.  
 Colonel R. E. D. Hoyle, *Military Science and Tactics*.

**Assistant Professors :**

- Major J. T. Bachman, *Military Science and Tactics*.  
 B. A. Baitsell, *Biology*.  
 S. E. Barney, *Civil Engineering*.  
 A. M. Bateman, *Geology*.  
 F. E. Beach, *Physics*.  
 C. T. Bishop, *Structural Engineering*.  
 H. V. Bozell, *Electrical Engineering*.  
 P. E. Browning, *Chemistry*.  
 J. P. Buwalda, *Geology*.  
 C. S. Farnham, *Civil Engineering*.  
 W. E. Ford, *Mineralogy*.  
 H. Hibbert, *Chemistry*.  
 A. J. Hill, *Chemistry*.  
 Major S. L. Erwin, *Military Science and Tactics*.  
 W. B. Kirkham, *Biology*.  
 A. F. Kovarik, *Physics*.

### Assistant Professors—Continued :

D. A. Kreider, *Physics*.  
H. Laurens, *Biology*.  
E. H. Lockwood, *Mechanical Engineering*.  
W. R. Longley, *Mathematics*.  
B. S. McFarland, *Chemistry*.  
E. J. Miles, *Mathematics*.  
L. W. W. Morrow, *Electrical Engineering*.

Major E. B. Murray, *Military Science and Tactics*.

L. Page, *Physics*.  
A. Phillips, *Metallurgy*.  
B. Sexton, *Chemistry*.  
H. L. Seward, *Mechanical Engineering*.  
W. K. Shepard, *Strength of Materials*.  
R. H. Suttie, *Civil Engineering*.  
J. I. Tracey, *Mathematics*.  
H. M. Turner, *Electrical Engineering*.  
H. S. Uhler, *Physics*.  
R. G. Van Name, *Chemistry*.  
P. T. Walden  
E. O. Waters, *Machine Design*.  
L. P. Wheeler, *Physics*.  
W. A. Wilson, *Mathematics*.  
G. F. Wittig, *Electrical Engineering*.  
W. J. Wohlberg, *Mechanical Engineering*.

### SCHOOL OF MEDICINE.

#### Professors :

G. Blumer, *Theory and Practice of Medicine*.  
R. H. Chittenden, *Physiological Chemistry*.  
J. W. Churchman, *Surgery*.  
H. B. Ferris, *Anatomy*.  
J. M. Flint, *Principles and Practice of Surgery*.  
A. L. Gesell, *Child Hygiene*.  
R. G. Harrison, *Comparative Anatomy*.  
Y. Henderson, *Physiology*.  
L. B. Mendel, *Physiological Chemistry*.  
O. T. Osborne, *Therapeutics*.  
J. M. Slemons, *Obstetrics and Gynecology*.  
F. P. Underhill, *Pathological Chemistry*.  
C. E. A. Winslow, *Public Health*.  
M. C. Winternitz, *Pathology*.  
A. N. Alling, *Ophthalmology*.  
J. C. Greenway, *University Health*.  
R. A. McDonnell, *Dermatology*.  
M. Mailhouse, *Neurology*.  
F. N. Sperry, *Laryngology*.  
H. L. Swain, *Otology*.  
F. W. Verdi, *Surgery*.

#### Assistant Professors :

H. G. Barbour, *Pharmacology*.  
H. S. Burr, *Anatomy*.  
H. S. Colwell, *University Health*.  
R. J. Cook, *Surgery*.  
W. E. Hartshorn, *Surgery*.

### Assistant Professors—Continued :

J. A. Honcij, *Medicine*.  
A. H. Morse, *Obstetrics and Gynecology*.  
A. L. Prince, *Physiology*.  
L. F. Rettger, *Bacteriology and Hygiene*.  
O. F. Rogers, *University Health*.  
G. H. Smith, *Bacteriology*.  
W. Tileston, *Medicine*.

### SCHOOL OF LAW.

#### Professors :

W. T. Barbour, *Equity and Jurisprudence*.  
J. K. Beach, *Mercantile Law and Admiralty Jurisprudence*.  
E. M. Borehard, *Law*.  
A. L. Corbin, *Law*.  
J. W. Edgerton, *Law*.  
E. B. Gager, *General Jurisprudence*.  
E. G. Lorenzen, *Roman Law and Comparative Jurisprudence*.  
E. M. Morgan, *Law*.  
H. W. Rogers  
T. W. Swan, *Testamentary Law*.  
W. H. Taft, *Constitutional Law*.  
E. S. Thurston, *Law*.  
G. D. Watrous  
J. Wurts, *English Common Law*.

#### Assistant Professors :

C. E. Clark, *Law*.  
G. E. Woodbine, *Law*.

### SCHOOL OF FORESTRY.

#### Professors :

R. C. Bryant, *Lumbering*.  
H. H. Chapman, *Forest Management*.  
R. C. Hawley, *Forestry*.  
S. J. Record, *Forest Products*.  
J. W. Tomney, *Silviculture*.  
G. Pinehot, *Forestry*.

#### Assistant Professor :

H. N. Whitford, *Tropical Forestry*.

### SCHOOL OF RELIGION.

#### Professors :

Rev. B. W. Bacon, *New Testament Criticism and Interpretation*.  
Rev. H. P. Beach, *Theory and Practice of Missions*.  
C. F. Kent, *Biblical Literature*.  
Rev. D. C. Macintosh, *Theology*.  
Rev. F. C. Porter, *Biblical Theology*.  
E. H. Sneath, *Philosophy of Religion and Religious Education*.  
Rev. H. H. Tweedy, *Practical Theology*.  
W. Walker, *Ecclesiastical History*.  
Rev. L. A. Weigle, *Christian Nurture*.  
H. B. Wright, *Christian Methods*.

#### Assistant Professors :

Rev. J. C. Archer, *Missions*.  
Rev. G. Dahl, *Old Testament Literature*.  
Rev. B. S. Winchester, *Religious Education*.

# SCHOOL OF FINE ARTS.

## Professors :

H. B. Jepson, *Applied Music*.  
W. S. Kendall, *Painting and Design*.  
E. V. Mecks, *Architecture*.  
H. Parker, *Theory of Music*.  
D. S. Smith, *Music*.

## Professors—Continued :

E. C. Taylor, *Drawing*.

## Assistant Professors :

H. Knight, *Applied Music*.  
A. K. Porter, *History of Art*.  
I. Troostwyk, *Applied Music*.

**Post-Graduate Courses.**—Courses of Study in the following Departments are offered by the Graduate School.

### A.—*Language, Literature, and the Fine Arts :*

Classical Philology and Archeology, Indo-Iranian Philology, Comparative Philology, and Linguistics.  
Semitic and Biblical Languages, Literature, and History.  
Romance Languages and Literatures.  
Germanic Languages and Literatures.  
English Language and Literature.  
Fine Arts; History and Criticism.  
Unclassified Courses.

### B.—*Social and Political Science, History, Philosophy, Psychology, and Education :*

Social and Political Science.  
History.  
Philosophy, Psychology, and Education.

### C.—*Mathematics and the Physical and Natural Sciences :*

Mathematics, Physics, Chemistry, Botany, Zoology and Comparative Anatomy, Physiology, Physiological Chemistry, Pathology, Pharmacology, and Experimental Medicine.  
Bacteriology and Public Health.  
The Geological Sciences.

### D.—*Engineering :*

Civil Engineering, Electrical Engineering, Mechanical Engineering, Mining Engineering and Metallurgy, Mechanics, and Clinical Engineering.

The degree of Bachelor of Philosophy, formerly granted by the Sheffield Scientific School for a three-year course, is now given only in Yale College after a four-year course, to students pursuing a somewhat different course of study than that prescribed for the old Bachelor of Arts degree. The study of Latin, but not necessarily of Greek, is still required for the Bachelor of Arts degree.

The Sheffield Scientific School course has been increased to four years in length, and now leads to the degree of Bachelor of Science. The " Undergraduate Schools " therefore give three degrees, B.A., or Ph.B. in Yale College; B.S. in the Scientific School. All require four years course.

## Museums.—

Peabody Museum. *Curators :* W. R. Coe, Ph.D., Zoology; E. S. Dana, Ph.D., Mineralogy; G. F. Eaton, Ph.D., Osteology; G. G. MacCury, Ph.D., Anthropology; C. Schuchert, LL.D., Geology; R. S. Lull, Ph.D., Vertebrate Paleontology.

South American Expeditions and Collections. *Director :* H. Bingham, Ph.D., Litt.D.

Many valuable Art Collections.

**Libraries.**—The total number of books in the various libraries of the University exceeds 1,100,000.

The University Library contains 950,000 volumes and many valuable manuscripts. There are 37 special libraries.

## EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—E. H. Jenkins.

## NEWMHAM COLLEGE. See CAMBRIDGE.

## NEW ORLEANS (Louisiana).

**TULANE UNIVERSITY OF LOUISIANA.** No particulars received.

## SUGAR STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—W. R. Dodson.

## NEWPORT (Shropshire).

**HARPER ADAMS AGRICULTURAL COLLEGE**, Newport, Salop. (1901.)

The work of the College comprises:

- (a) The training of students, men and women, for agricultural careers, and the holding of Nature Study Courses for Teachers.
- (b) Farm Experimental Work.
- (c) Advisory work for the benefit of farmers and others in the counties of Salop, Stafford and Warwick.

The College is the centre for Higher Agricultural Education for the Board of Agriculture, West Midland Province, comprising Shropshire, Staffordshire, and Warwickshire.

As the Experimental Centre for these counties a special feature of the College is the demonstrations held on the College Farm for farmers, who attend in large numbers.

The Poultry Section includes the largest Laying Trials in this country, and about 1,200 birds are under annual trial. The Poultry Conference extending over several days are attended by Poultry Keepers from all parts of the country.

*Terms* : Three per year.

*Students* : 100 to 120.

*Budget* : Grants are made by the Board of Agriculture and the County Councils of Shropshire, Staffordshire, and Warwickshire.

### OFFICIALS.

Chairman of Governing Body.

Board of Governors appointed by—

- (a) County Councils of Salop, Stafford, and Warwick.
- (b) University of Birmingham.
- (c) Royal Agricultural Society.
- (d) Co-optated, representing Trustees.

**Degrees.**—Diploma in Agriculture comprising a three-year course. Certificate in Agriculture comprising a two-year course.

### STAFF.

*Principal.*—P. Hedworth Foulkes, B.Sc., F.E.S.

#### Lecturers :

J. C. Brown, *Agriculture*.  
R. C. Andrew     "  
J. C. Urquhart, *Agricultural Chemistry*.

H. Thompson, *Chemistry*.  
A. Roebuck, *Botany*.  
W. T. Wilson, *Veterinary*.  
8 Instructors.

**Post-Graduate Courses.**—Courses are arranged for those who have completed the Diploma in special branches—Agricultural Chemistry, Botany, and practical work in connection with special investigations on the College Farm.

## NEWTON ABBOT (Devon).

**SEALE HAYNE AGRICULTURAL COLLEGE**, Newton Abbot, Devon. (1914.)

*Terms* : Four per year.

*Students* : 100.

### OFFICIAL.

*Principal.*—D. R. Edwardes-Ker, O.B.E., M.A., B.Sc.

**Degrees conferred.**—College Diploma and Certificate in Agriculture or Horticulture.

### LECTURERS.

P. A. McWilliam, *Head of Agric. Department*.  
E. W. Fenton, *Head of Botanical Dept.*  
T. J. Shaw, *Agriculture*.

C. T. Mackintosh, *Fruit and Vegetable Growing*.  
C. Crosse, *Poultry*.  
N. F. Richardson, *Agric. Bookkeeping*.



## NEW YORK.

COLUMBIA UNIVERSITY, New York City. (1754.)

*Sessions* : Three per year.*Students* : 26,203; including 9,539 in Summer Session, and 8,460 in Extension Teaching.

## OFFICIALS.

*President*.—N. Murray Butler, Ph.D., Jur.D., LL.D., Litt.D.*Secretary*.—F. D. Fackenthal, A.B.*Acting Registrar*.—Edward J. Grant.*Bursar*.—C. S. Danielson.*Principal of Horace Manor School*.—H. C. Pearson.*Principal of Horace Manor School for Boys*.—V. Prettyman.**Degrees conferred**.—A.B., A.M., LL.B., LL.M., Litt.B., B.Arch., M.B., Ch.E., C.E., E.E., E.M., Ph.D., Phar.D., D.D.S., Mech.E., Met.E.

## PROFESSORS.

COLUMBIA, BARNARD, AND  
TEACHERS COLLEGES.**Professors :**

- R. J. H. Gottheil, *Rabbinical Literature and the Semitic Languages*.  
 E. D. Perry, *Greek*.  
 W. A. Dunning, *History and Political Philosophy*.  
 A. V. Williams-Jackson, *Indo-Iranian Languages*.  
 B. Matthews, *Dramatic Literature*.  
 H. A. Todd, *Romance Philology*.  
 F. H. Giddings, *Sociology and the History of Civilization*.  
 J. Chidester Egbert, *Latin*.  
 F. T. Baker, *English Language and Literature*.  
 J. E. Russell, *Education*.  
 F. M. McMurry, *Elementary Education*.  
 P. Monroe, *History of Education*,  
*Director of School of Education*.  
 W. P. Trent, *English Literature*.  
 N. G. McCrea, *Latin Language and Literature*.  
 G. Lodge, *Latin and Greek*.  
 C. H. Young, *Greek, Archeology*.  
 T. D. Wood, *Physical Education*.  
 W. T. Brewster, *English*.  
 G. C. D. Odell, *English*.  
 C. Knapp, *Classical Philology*.  
 J. D. Prince, *Slavonic Languages*.  
 M. H. Saville, *American Archeology*.  
 G. L. Meylan, *Physical Education*.  
 J. B. Fletcher, *Comparative Literature*.  
 A. W. Dow, *Fine Arts*.  
 W. R. Shepherd, *History*.  
 J. T. Shotwell, "  
 V. G. Simkhovitch, *Economic History*.  
 A. H. Thorndike, *English*.  
 H. Johnson, *History*.  
 M. A. Nutting (Miss), *Nursing*.  
 W. W. Lawrence, *English*.  
 G. D. Strayer, *Educational Administration*.

**Professors—Continued :**

- J. Erskine, *English*.  
 R. Weeks, *Romance Philology*.  
 V. C. Gildersleeve (Miss), *English*.  
 G. P. Krapp, *English*.  
 F. G. Moore, *Latin*.  
 F. G. Bonser, *Education*.  
 C. T. McFarlane, *Geography*.  
 C. Sears Baldwin, *Rhetoric and English Composition*.  
 W. H. Kilpatrick, *Education*.  
 W. H. Hall, *Choral and Church Music*.  
 H. L. McBain, *Municipal Science and Administration*.  
 W. A. Boring, *Design*.  
 F. De Onis, *Spanish Literature*.  
 C. D. Hazen, *History*.  
 R. C. McCrea, *Economics*.  
 D. Snedden, *Education*.  
 H. Parker Willis, *Banking*.  
 W. C. Bagley, *Education*.  
 O. W. Caldwell, "  
 A. D. Dean, "  
 W. H. Carpenter, *Germanic Philology*.  
 R. H. Montgomery, *Accounting*.  
 C. J. H. Hayes, *History*.  
 D. D. Johnson, *Physiography*.  
 Lt.-Col. A. R. Edwards, *Military Science and Tactics*.  
 A. Le Braz, *French Literature*.  
 W. F. Ogburn, *Sociology*.  
 J. R. Smith, *Economic Geography*.

**Associate Professors :**

- C. H. Farnsworth, *School Music*.  
 E. W. Bagster-Collins, *German*.  
 L. A. Loiseaux, *French*.  
 A. F. J. Remy, *Germanic Philology*.  
 Grace A. Hubbard (Miss), *English*.  
 D. G. Mason, *Music*.  
 W. A. Braun, *Germanic Languages and Literatures*.  
 J. L. Gerig, *Celtic*.  
 R. L. Schuyler, *History*.



# Associate Professors—Continued :

- La Rue Van Hook, *Classical Philology*.  
 Anna M. Cooley (Miss), *Household Arts*.  
 P. S. Hill (Miss), *Kindergarten Education*.  
 M. D. Swartz Rose (Mrs.), *Household Arts*.  
 M. B. Van Arsdale (Miss), *Household Arts*.  
 E. E. Agger, *Economics*.  
 R. E. Chaddock, *Statistics*.  
 D. S. Muzzey, *History*.  
 T. H. Briggs, *Education*.  
 H. A. E. Chandler, *Economics*.  
 A. G. H. Spiers, *French*.  
 R. M. Haig, *Business Organization*.  
 N. L. Englehardt, *Education*.  
 F. W. Johnson  
 J. F. Williams, *Physical Education*.  
 H. R. Sterves, *English*.  
 E. H. Wright  
 F. A. Patterson  
 H. M. Ayres

# Assistant Professors :

- H. T. Vulte, *Household Arts*.  
 A. De V. Tassin, *English*.  
 J. Fales (Miss), *Household Arts*.  
 A. J. Latham (Miss), *Oral English*.  
 S. O. Miller, *Drawing*.  
 A. A. Tenney, *Sociology*.  
 A. Bement, *Fine Arts*.  
 G. A. Cornell (Miss), *Fine Arts*.  
 W. Goodsell, *Education*.  
 G. M. Hirst (Miss), *Classical Philology*.  
 T. H. Harrington, *Drawing*.  
 F. W. J. Heuser, *Germanic Languages and Literatures*.  
 E. M. Sait, *Politics*.  
 R. Stevens, *Secondary Education*.  
 E. H. Sturtevant, *Classical Philology*.  
 A. Abbott, *English*.  
 B. R. Andrews, *Household Arts*.  
 A. W. Goodrich (Miss), *Nursing and Health*.  
 H. F. Muller, *French*.  
 D. Bigongiari, *Italian*.  
 E. C. Cook (Miss), *English*.  
 W. Haller, *English*.  
 C. M. Howard (Miss), *English*.  
 J. H. H. Lyon, *English*.  
 C. M. Winchell (Miss), *Household Arts*.  
 R. B. Kester, *Accounting*.  
 H. H. L. Schulze, *Germanic Languages and Literatures*.  
 E. S. Elliott, *Physical Education*.  
 B. B. Kendrick, *History*.  
 E. H. Gunther (Miss), *Household Arts*.  
 A. A. Meras, *French*.  
 P. de Bacourt, *French*.

# Assistant Professors—Continued :

- E. J. Hutchinson (Miss), *Economics*.  
 A. W. Ballard (Miss), *French*.  
 J. M. Gambrill, *History*.  
 D. R. Fox, *History*.  
 H. Lyon, *Finance*.  
 M. A. Huttman (Miss), *History*.  
 T. W. Van Metre, *Transportation*.  
 D. S. Fansler, *English*.  
 T. L. Kelley, *Education*.  
 K. C. Reiley (Miss), *Greek and Latin*.  
 W. Spohr (Miss), *Household Arts*.  
 I. M. Stewart (Miss), *Nursing and Health*.  
 M. R. Trahue, *Education*.  
 E. K. Fretwell, *Education*.  
 L. S. Hollingworth (Mrs.), *Education*.  
 W. A. McCall, *Education*.  
 E. H. Resiner  
 M. Carney (Miss), *Rural Education*.  
 B. Larson (Miss), *Physical Education*.  
 A. R. Weyman (Miss)  
 Major F. R. McLean, *Military Science and Tactics*.  
 Capt. A. G. Merry, *Military Science and Tactics*.  
 C. T. Martin, *Fine Arts*.  
 L. Tallman (Miss), *Religious Education*.

# FACULTIES OF POLITICAL SCIENCE, PHILOSOPHY, AND PURE SCIENCE.

## Professors :

- E. R. A. Seligman, *Political Economy*.  
 H. F. Osborn, *Zoology*.  
 E. B. Wilson  
 T. S. Fiske, *Mathematics*.  
 H. Jacoby, *Astronomy*.  
 F. N. Cole, *Mathematics*.  
 B. Dean, *Vertebrate Zoology*.  
 F. Boas, *Anthropology*.  
 J. F. Woodhull, *Physical Science*.  
 H. G. Lord, *Philosophy*.  
 M. T. Bogert, *Organic Chemistry*.  
 J. L. R. Morgan, *Physical Chemistry*.  
 H. E. Crampton, *Zoology*.  
 E. L. Thorndike, *Educational Psychology*.  
 D. E. Smith, *Mathematics*.  
 W. J. Gies, *Biological Chemistry*.  
 H. R. Seager, *Political Economy*.  
 H. L. Moore  
 F. J. E. Woodbridge, *Philosophy*.  
 F. Adler, *Social and Political Ethics*.  
 H. M. Richards, *Botany*.  
 C. J. Keyser, *Mathematics*.  
 M. A. Bigelow, *Biology* (Director of the School of Practical Arts).  
 T. H. Morgan, *Experimental Zoology*.  
 C. L. Poor, *Celestial Mechanics*.  
 J. Dewey, *Philosophy*.  
 A. P. Weiss, *Mathematical Physics*.

**Professors—Continued :**

R. S. Woodworth, *Psychology*.  
H. B. Mitchell, *Mathematics*.  
E. Kasner                    "  
G. B. Pegram, *Physics*.  
C. P. Berkey, *Geology*.  
W. B. Fite, *Mathematics*.  
H. E. Hawkes, *Mathematics*.  
G. V. Wendell, *Physics*.  
R. A. Harper, *Botany*.  
A. Smith, *Chemistry*.  
J. B. Clark, *Political Economy*.  
J. F. Kemp, *Geology*.  
B. Dudes, *Physics*.

**Associate Professors :**

M. E. Maltby (Miss), *Physics*.  
W. P. Montague, *Philosophy*.  
J. H. McGregor, *Zoology*.  
C. C. Curtis, *Botany*.  
M. Reimer (Miss), *Chemistry*.  
A. L. Jones, *Philosophy*.  
C. B. Upton, *Mathematics*.  
H. T. Beans, *Chemistry*.  
T. B. Freas                "  
W. T. Bush, *Philosophy*.  
W. B. Pitkin               "  
I. H. Ogilvie (Miss), *Geology*.  
J. M. Nelson, *Organic Chemistry*.  
H. L. Hollingworth, *Psychology*.  
J. P. C. Southall, *Physics*.  
J. Kendall, *Chemistry*.  
J. Hostmann               "

**Assistant Professors :**

T. E. Hazen, *Botany*.  
G. W. Mullins, *Mathematics*.  
H. A. Ruger, *Psychology*.  
L. P. Sicheloff, *Mathematics*.  
J. E. Zanetti, *Chemistry*.  
H. W. Webb, *Physics*.  
H. A. Fales, *Chemistry*.  
J. Broadhurst (Miss), *Biology*.  
C. D. Carpenter, *Chemistry*.  
M. T. Whitley (Miss), *Educational Psychology*.  
W. K. Gregory, *Vertebrate Paleontology*.  
H. W. Farwell, *Physics*.  
L. H. Gregory (Miss), *Zoology*.  
E. Keller (Miss), *Chemistry*.  
J. J. Coss, *Philosophy*.  
A. T. Poffenberger, jr., *Psychology*.  
W. L. Severinghaus, *Physics*.

**SCHOOL OF MEDICINE, DENTISTRY,  
AND PHARMACY.**

**Professors :**

G. S. Huntington, *Anatomy*.  
F. S. Lee, *Physiology*.  
L. E. Holt, *Diseases of Children*.  
G. N. Calkins, *Protozoology*.  
J. A. Miller, *Clinical Medicine*.  
A. H. Knapp, *Ophthalmology*.  
F. C. Wood, *Cancer Research*.

**Professors—Continued :**

W. E. Studdiford, *Obstetrics and Gynecology*.  
H. H. Rusby, *Materia Medica*.  
G. C. Diekman, *Pharmacy*.  
G. R. Lockwood        "  
W. K. Draper            "  
Van H. Norrie           "  
L. W. Hotchkiss, *Clinical Surgery*.  
J. B. Walker            "        "  
G. N. Dowd               "        "  
E. M. Evans, *Clinical Medicine*.  
C. H. Peck, *Clinical Surgery*.  
H. V. Arny, *Chemistry*.  
W. T. Longcope, *Practice of Medicine*.  
J. A. Fordyce, *Dermatology and Syphilology*.  
H. Zinsser, *Bacteriology*.  
F. Tilney, *Neurology and Neuro-Anatomy*.  
C. G. Coakley, *Laryngology and Otology*.  
W. A. Holden, *Clinical Ophthalmology*.  
H. St. C. Pace, *Commercial Pharmacy*.  
J. B. Squier, *Urology*.  
H. S. Dunning, *Oral Surgery*.  
H. W. Gillett, *Theory and Practice of Dentistry*.  
A. H. Merritt, *Oral Pathology*.  
F. A. Peeso, *Dentistry*.  
F. T. Van Woert, *Clinical Dentistry*.  
L. M. Waugh, *Histology and Embryology*.  
J. L. Young, *Orthodontia*.  
R. A. Hibbs, *Orthopedic Surgery*.  
J. W. Jobling, *Pathology*.  
L. Casamajor, *Neurology*.  
J. P. Ruyl, *Prosthetic Dentistry*.  
W. B. Dunning, *Operative Dentistry*.

**Clinical Professors :**

J. S. Thacher, *Clinical Medicine*.  
P. F. Chambers, *Clinical Gynecology*.  
F. Huber, *Clinical Medicine*.  
R. Lewis, *Clinical Laryngology and Otology*.  
J. Kaufman, *Clinical Medicine*.  
R. C. Denig, *Clinical Ophthalmology*.  
N. E. Brill, *Clinical Medicine*.  
F. Kammerer, *Clinical Surgery*.  
E. Libman, *Clinical Medicine*.  
F. R. Oastler, *Clinical Gynecology*.  
A. W. Hollis, *Clinical Medicine*.  
H. H. M. Lyle, *Clinical Surgery*.  
H. C. Taylor, *Clinical Gynecology*.  
E. Eliot, jr., *Clinical Surgery*.  
A. V. Moschowitz, *Clinical Surgery*.  
S. Wachsmann, *Clinical Medicine*.

**Associate Professors :**

R. Burton-Opitz, *Physiology*.  
W. R. Williams, *Clinical Medicine*.  
F. H. Pike, *Physiology*.  
W. H. Woglom, *Cancer Research*.  
O. S. Strong, *Neurology*.  
W. D. Tracy, *Operative Dentistry*.

**Associate Professors—Continued :**

- C. W. Ballard, *Pharmacognosy*.  
 C. P. Wimmer, *Pharmacy*.  
 W. Ward, *Obstetrics and Gynecology*.  
 W. E. Caldwell, *Obstetrics and Gynecology*.  
 A. M. Pappenheimer, *Pathology*.  
 W. Darrach, *Surgery*.  
 A. P. S. Lambert, *Surgery*.  
 W. C. Clarke               "  
 E. H. Pool               "  
 W. Martin               "  
 F. B. St. John           "  
 A. O. Whipple           "

**Assistant Professors :**

- B. B. Gallaudet, *Anatomy*.  
 J. H. Larkin, *Pathology*.  
 K. M. Vogel, *Clinical Pathology*.  
 D. Bovaird, jr., *Clinical Medicine*.  
 C. N. B. Camac, *Clinical Medicine*.  
 B. P. Farrel, *Orthopedic Surgery*.  
 H. S. Patterson, *Clinical Medicine*.  
 T. S. Hart               "       "  
 L. F. Frissell           "       "  
 C. C. Lieb, *Pharmacology*.  
 G. A. Tuttle, *Clinical Medicine*.  
 F. S. Matthews, *Clinical Surgery*.  
 W. A. Downes           "  
 E. L. Scott, *Physiology*.  
 E. L. Hunt, *Clinical Neurology*.  
 W. A. Bastedo, *Clinical Medicine*.  
 H. B. Williams, *Physiology*.  
 R. Frothingham, *Laryngology and Otology*.  
 T. L. Saunders, *Laryngology*.  
 S. P. Goodhart, *Neurology*.  
 O. S. Strong           "  
 J. F. McCarthy, *Urology*.  
 V. Daneshakoff (Miss), *Anatomy*.  
 A. H. Stevenson, *Preventive Dentistry*.  
 E. S. Ulsaver, *Prosthetic Dentistry*.  
 O. J. Chase, jr., *Operative Dentistry*.  
 S. W. Van Saun, *Operative Dentistry*.  
 G. M. MacKee, *Dermatology and Syphilology*.  
 C. H. Jaeger, *Orthopedic Surgery*.  
 R. G. Snyder, *Clinical Medicine*.  
 G. L. La Porte       "       "  
 B. S. Oppenheimer, *Clinical Medicine*.  
 G. R. Elliott, *Clinical Orthopedic Surgery*.  
 H. S. Carter, *Medicine*.  
 W. W. Herriek, *Medicine*.  
 H. C. Thacher       "

**FACULTY OF APPLIED SCIENCE.****Professors :**

- A. J. Moses, *Mineralogy*.  
 R. Peele, *Mining*.  
 M. I. Pupin, *Electro-Mechanics*.  
 J. B. Clark, *Political Economy*.  
 E. B. Lovell, *Civil Engineering*.  
 H. C. Sherman, *Food Chemistry*.

**Professors—Continued :**

- C. E. Lucke, *Mechanical Engineering*.  
 W. Rautenstrauch, *Mechanical Engineering*.  
 A. L. Walker, *Metallurgy*.  
 W. Campbell           "  
 A. F. Taggart, *Ore Dressing*.  
 W. I. Slichter, *Electrical Engineering*.  
 O. S. Morgan, *Agriculture*.  
 D. D. Jackson, *Chemical Engineering*.  
 R. M. Raymond, *Mining*.  
 L. H. Baekeland, *Chemical Engineering*.  
 R. H. MacKee, *Chemical Engineering*.

**Associate Professors :**

- R. E. Mayer, *Engineering Drafting*.  
 C. H. Burnside, *Mechanics*.  
 J. H. Morecroft, *Electrical Engineering*.  
 J. K. Finch, *Civil Engineering*.  
 A. W. Hixson, *Chemical Engineering*.

**Assistant Professors :**

- L. McIlvaine Luquer, *Mineralogy*.  
 S. A. Tucker, *Electro-Chemistry*.  
 M. Arendt, *Electrical Engineering*.  
 E. J. Hall, *Assaying*.  
 H. L. Parr, *Mechanical Engineering*.  
 E. F. Kern, *Metallurgy*.  
 C. W. Thomas, *Mechanical Engineering*.  
 C. C. Sioffel  
 E. D. Thurston, jr., *Mechanical Engineering*.  
 L. De G. Moss, *Mechanical Engineering*.  
 F. W. Hehre, *Electrical Engineering*.  
 C. W. Larson, *Agriculture*.  
 J. J. Morgan, *Chemical Engineering*.  
 A. W. Thomas, *Food Chemistry*.

**SCHOOL OF LAW.****Professors :**

- M. Smith, *Roman Law and Comparative Jurisprudence*.  
 J. B. Moore, *International Law and Diplomacy*.  
 G. F. Canfield, *Law*.  
 C. T. Terry, *Law*.  
 N. Abbott           "  
 W. D. Guthrie, *Constitutional Law*.  
 H. F. Stone, *Law*.  
 R. W. Gifford       "  
 U. Moore           "  
 T. I. Parkinson, *Legislation*.  
 S. McCune Lindsay, *Social Legislation*.  
 Y. B. Smith, *Law*.  
 W. W. Cook, *Law*.

**Associate Professors :**

- T. R. Powell, *Constitutional Law*.  
 G. Glenn, *Law*.

**SCHOOL OF JOURNALISM.****Professors :**

- J. W. Cunliffe, *English*.

**Associate Professors :**

R. C. E. Brown, *Journalism*.  
C. P. Cooper „

**SCHOOL OF ARCHITECTURE.**

**Professor :**

A. D. F. Hamlin, *History of Architecture*.

**Post-Graduate Courses.**—Leading to A.M., M.S., Ph.D., and LL.M.

**Museums.**—

Brander Matthews Dramatic Museum, 5,000 volumes on drama, models of theatres in different periods.

Egleston Mineralogical Museum, 30,000 specimens.

Museum of General Inorganic and Organic Chemistry, and of the Chemical Arts.

Museum of Human and Comparative Anatomy.

**NEW YORK UNIVERSITY**, Washington Square, New York. (Chartered 1831.)

*Terms :* Three per year.

*Students :* 9,129.

**OFFICIALS.**

*Chancellor.*—Elmer E. Brown, Ph.D., LL.D.

*Dean.*—Marshall S. Brown, A.M.

*Registrar.*—Milton E. Loomis, A.M.

*Bursar.*—Frank A. Fall, A.M., Litt.D.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

A. L. Bouton, *English*.  
E. G. Sihler, *Latin Language and Literature*.  
M. S. Brown, *History and Political Science*.  
L. A. McLouth, *German Language and Literature*.  
W. E. Waters, *Greek Language and Literature*.  
C. G. Shaw, *Ethics*.  
E. B. Babcock, *Romance Languages and Literatures*.  
A. H. Nason, *English*.

**Associate Professor :**

F. H. Wilkens, *German*.

**Assistant Professors :**

T. F. Jones, *European History*.  
B. S. Allen, *English*.  
H. C. Heaton, *Romance Languages*.  
H. A. Watt, *English*.  
C. C. D. Briggs, *Public Speaking*.

**FACULTY OF PURE SCIENCE.**

**Professors :**

T. W. Edmondson, *Mathematics*.  
C. L. Bristol, *Biology*.  
A. E. Hill, *Analytical Chemistry*.  
J. E. Woodman, *Geology*.  
J. C. Hubbard, *Physics*.

**Associate Professor :**

J. P. Simmons, *Chemistry*.

**Assistant Professors :**

C. A. Harriman, *Architecture*.  
66 Associates, 243 Instructors, 36 Lecturers, 66 Assistants, and 94 Clinical Assistants.

**Assistant Professors :**

G. I. Finlay, *Geology*.  
P. L. Thorne, *Mathematics*.  
J. R. Hobbie, *Physics*.  
H. J. Masson, *Chemistry*.  
F. Barry, *Chemistry*.  
20 Instructors and 9 Assistants.

**FACULTY OF APPLIED SCIENCE.**

**Professors :**

C. H. Snow, *Civil Engineering*.  
C. P. Bliss, *Mechanical Engineering*.  
C. E. Houghton, *Mechanics*.  
A. Haring, *Bridge and Railway Engineering*.  
J. L. Arnold, *Electrical Engineering*.

**Associate Professor :**

W. R. Bryans, *Engineering Drawing*.

**Assistant Professors :**

H. Dunham, *Engineering Drawing*.  
D. S. Trowbridge, *Engineering*.  
H. G. Tyler, *Mechanical Engineering*.  
2 Lecturers, 9 Instructors, 10 Assistants

**FACULTY OF LAW.**

**Professors :**

F. H. Sommer, *Law*.  
L. J. Tompkins „  
I. F. Russell „  
F. A. Erwin „  
T. D. Kenneson „  
C. F. Bacon, *Law of Commerce and Finance*.



# Professors—Continued :

F. W. Aymar, *Law*.  
W. F. Walsh, "  
E. D. Webb, "  
C. F. Burnett, "

# Assistant Professors :

G. C. Sprague, *Law*.  
A. T. Vanderbilt, *Law*.  
5 Lecturers, 2 Instructors.

## SCHOOL OF MEDICINE.

# Professors :

S. A. Brown, *Therapeutics*.  
E. D. Fisher, *Mental and Nervous Diseases*.  
A. Flint, *Obstetrics*.  
W. P. Northrup, *Pediatrics*.  
J. A. Mandel, *Chemistry*.  
E. B. Dench, *Otology*.  
W. H. Park, *Bacteriology and Hygiene*.  
R. H. Sayre, *Orthopedic Surgery*.  
L. A. La Grade, *Military Surgery*.  
J. E. Weeks, *Ophthalmology*.  
H. Brooks, *Clinical Medicine*.  
G. B. Wallace, *Pharmacology*.  
H. C. Kaekson, *Physiology*.  
H. D. Senior, *Anatomy*.  
A. T. Osgood, *Genito-Urinary Surgery*.  
W. B. Trimble, *Dermatology and Syphilology*.  
G. D. Stewart, *Surgery*.  
H. M. Biggs, *Medicine*.  
L. M. Hurd, *Laryngology*.  
W. C. Lusk, *Clinical Surgery*.  
L. T. Le Wald, *Röntgenology*.  
D. Symmers, *Pathology*.  
M. S. Gregory, *Mental Diseases*.

# Adjunct Professors :

W. E. Studdiford, *Gynecology*.  
R. G. Freeman, *Pediatrics*.

# Associate Professor :

R. J. Carlisle, *Medicine*.

# Assistant Professors :

F. W. Thyng, *Anatomy*.  
A. O. Gettler, *Chemistry*.  
A. R. Mandel, *Clinical Pathology*.  
C. Krumwiede, jr., *Bacteriology*.  
R. J. Wilson, *Bacteriology*.  
E. Foskett, *Gynecology*.  
C. E. Perkins, *Otology*.  
E. J. Pellini, *Pharmacology*.  
A. Fraser, *Pathology*.  
W. C. Noble, jr., *Hygiene*.  
W. Coleman, *Medicine*.

# Clinical Professors :

C. E. Quimby, *Medicine*.  
H. A. Haubold, *Surgery*.  
J. Douglas, "  
L. K. Neff, "  
W. H. Luckett, "

# Clinical Professors—Continued :

M. Manges, *Medicine*.  
A. Meyer, "  
C. A. Elsberg, *Surgery*.  
I. Abrahamson, *Neurology*.  
M. Fishberg, *Tuberculosis*.  
P. W. Nathan, *Orthopedic Surgery*.  
C. Goodman, *Surgery*.  
M. Nicoll, jr., *Infectious Diseases*.  
A. F. Hess, *Pediatrics*.  
W. J. Pulley, *Medicine*.  
J. McCoy, *Laryngology*.  
H. W. Wandless, *Ophthalmology*.  
J. B. Bissell, *Surgery*.  
I. Levin, *Cancer Research*.  
T. J. Abbott, *Medicine*.  
T. A. Smith, *Surgery*.  
A. M. Wright, "  
W. C. Cramp, "  
W. E. Caldwell, *Obstetrics*.  
W. M. Ford, "  
J. F. Nagle, *Medicine*.  
J. C. McCoy, *Surgery*.  
J. T. J. Bird, *Medicine*.  
E. P. Shelby, "  
R. E. Brown, *Obstetrics*.  
1 Associate, 12 Lecturers, 37 Instructors, 11 Assistants.

## COMMERCE, ACCOUNTS, AND FINANCE.

# Professors :

J. F. Johnson, *Political Economy and Finance*.  
J. T. Madden, *Accounting*.  
J. R. Wildman, "  
J. W. Jenks, *Government and Public Administration*.  
G. B. Hotchkiss, *Business English*.  
W. G. Fisher, *Economics*.  
J. R. Turner, "  
J. E. Lough, *Experimental Psychology*.  
E. J. Clapp, *Economics*.  
G. W. Gerstenberg, *Finance*.  
W. W. Douglas, *Accounting*.  
L. Galloway, *Commerce and Industry*.  
J. M. Lee, *Journalism*.  
A. F. Wilson, "  
A. N. Taylor, *Economics*.

# Associate Professor :

R. M. Binder, *Sociology*.  
J. D. Magee, *Economics*.

# Assistant Professors :

E. B. Gowin, *Political Economy*.  
M. E. Loomis, *Government*.  
M. B. Foster, *Economics*.  
E. J. Kilduff, *Business English*.  
W. A. Barber, *Methods in Commercial Education*.  
A. H. Rosenkampff, *Accounting*.  
R. P. Ettinger, *Finance*.  
40 Lecturers, 23 Instructors, 1 Assistant.



# NEW YORK STATE VETERINARY COLLEGE.

## Professors :

W. H. Hoskins, *Clinical Medicine and Jurisprudence.*  
 R. W. Ellis, *Veterinary Medicine.*  
 W. R. Blair, *Comparative and Special Pathology.*  
 W. O. L. Lellman, *Pathology.*  
 T. B. Rogers, *Materia Medica and Therapeutics.*

## Professors—Continued :

A. Eichhorn, *Infectious and Contagious Diseases.*  
 A. C. Hassloch, *Materia Medica, Therapeutics, Botany, and Pharmacology.*

## Assistant Professors :

H. Henning, *Veterinary Anatomy and Surgery.*  
 A. McNeil, *Bacteriology.*  
 J. F. De Vine, *Comparative Medicine.*  
 C. C. Schloemer, *Veterinary Medicine.*  
 10 Lecturers, 1 Instructor.

**Post-Graduate Courses** in Ancient Languages, Modern Languages, Philosophy and Religion, Education, Social Sciences, Mathematical and Physical Sciences, and Biological Sciences. There is also a School of Pedagogy.

**Library.**—University Library of 100,000 volumes. *Librarian :* B. Corwin, M.D. Various special Libraries.

## UNIVERSITY OF THE STATE OF NEW YORK. See ALBANY.

## GENERAL THEOLOGICAL SEMINARY OF THE PROTESTANT EPISCOPAL CHURCH IN THE UNITED STATES, Chelsea Square, New York City. (1817.)

Affiliated with Columbia and New York Universities.

*Terms :* Two semesters in most of, but not in all, of the Courses.

*Students :* Average more than 100.

## OFFICIALS.

*Dean.*—Very Rev. H. E. W. Fosbroke, D.D.

*Sub-Dean.*—Rev. H. McK. Denslow, D.D.

*Bursar and Registrar.*—C. B. Zabriskie, B.A.

## Degrees conferred.

### Degrees.

### Hoods.

B.D. - - Hood of Oxford shape, of black ribbed silk lined with purple silk, and corded with scarlet silk.

D.D. - - Hood of Oxford shape, of scarlet cloth, lined with purple silk.

## PROFESSORS.

Rev. H. McK. Denslow, *Pastoral Theology.*

Rev. C. N. Shepard, *Hebrew.*

Rev. C. C. Edmunds, *Literature of New Testament.*

Rev. L. W. Batten, *Literature of Old Testament.*

Rev. A. P. Hunt, *Christian Ethics.*

Rev. A. W. Jenks, *Ecclesiastical History.*

Rev. D. S. Miller, *Christian Apologetics.*

Rev. F. B. Blodgett, *Apocalyptic Literature.*

Rev. F. J. Hall, *Dogmatic Theology.*

Rev. C. H. Boynton, *Homiletics.*

Rev. B. S. Easton, *New Testament.*

Rev. R. B. Pomeroy, *Polity and Canon Law.*

3 Instructors and 1 Assistant.

**Post-Graduate Courses.**—New Courses, primarily for Graduates in Syraic, Religion of Israel, Historical Patristics, Philology of Christian Religion, St. Paul's Ethical Teaching and Eastern Liturgies.

In addition to the above, plans for graduate work are made on consultation, between the students individually and the professors in whose departments they wish to study.

**Library.**—The Library of the General Theological Seminary. *Librarian :* G. Dobbin Brown, Ph.D.

## UNION THEOLOGICAL SEMINARY, 3041 Broadway, New York. (1836.)

"Equal privileges of admission and instruction, with all the advantages of the institution, are allowed to students of every denomination of Christians." For admission graduation from a college of accepted standing is demanded.

*Terms :* Two semesters.

*Budget :* \$284,000.

*Students :* 288.

## OFFICIALS.

*President*.—Rev. A. C. McGiffert, Ph.D., D.D., LL.D.

*Dean of Students*.—Rev. C. R. Gillett, D.D., L.H.D.

**Degrees conferred**.—B.Th., M.Th., D.Th.

## PROFESSORS.

**Professors :**

Rev. A. C. McGiffert, *Church History*.  
 Rev. W. A. Brown, *Systematic Theology*.  
 Rev. C. P. Fagnani, *Old Testament Literature and Exegesis*.  
 Rev. J. E. Frame, *Sacred Literature*.  
 Rev. J. A. Bewer, *Old Testament History and Theology*.  
 Rev. H. Black, *Practical Theology*.  
 G. A. Coe, *Practical Theology*.  
 Rev. G. A. Johnston Ross, *Homiletics*.  
 Rev. H. P. Smith, *Hebrew and the Cognate Languages* (Librarian).  
 Rev. R. E. Hume, *History of Religions*.  
 Rev. G. S. White, *Applied Christianity*.  
 Rev. H. E. Fosdick, *Practical Theology*.

**Professors—Continued :**

Rev. F. J. Foakes Jackson, *Christian Institutions*.  
 Rev. D. J. Fleming, *Missions*.  
 Rev. H. F. Ward, *Christian Ethics*.  
 Rev. E. W. Lyman, *Philosophy of Religion*.  
 Rev. W. W. Rockwell, *Church History*.  
 Rev. E. F. Scott, *Biblical Theology*.

**Assistant Professors :**

H. S. Coffin, *Pastoral Theology*.  
 H. H. Tryon, *New Testament and Church History*.  
 H. Hartshorne, *Religious Education*.  
 A. L. Swift, jr., *Field Work*.  
 4 Instructors, 5 Lecturers, 5 Assistants.

**THE JEWISH THEOLOGICAL SEMINARY OF AMERICA**, 531-535 West 123rd Street, New York City. (1886.)

*Terms* : Two per year. *Budget* : Approximately \$60,000.00 per annum.

## OFFICIALS.

*Chairman of Board of Directors*.—Louis Marshall.

*Treasurer*.—Daniel Guggenheim.

*Honorary Secretary*.—Sol. M. Stroock.

*Acting-President*.—Cyrus Adler, Ph.D.

*Registrar*.—Israel Davidson, Ph.D.

*Secretary*.—Joseph B. Abrahams.

**Degrees conferred**.—Graduate Course, Rabbi; Post-Graduate Course: D.H.L., D.D.; Honorary Degrees: D.H.L., D.D.

*Hoods*.—Light blue and white.

## PROFESSORS.

I. Friedlaender, *Biblical Literature and Exegesis*.  
 L. Ginzberg, *Talmud*.  
 A. Marx, *History*.

M. M. Kaplan, *Homiletics*.  
 I. Davidson, *Medieval Hebrew Literature*.  
 M. Hyamson, *Codes*.

3 Instructors, 1 Lecturer.

**Library**.—The Seminary houses the largest Jewish Collection of books and manuscripts in America, comprising 57,098 books and 1,820 manuscripts. *Librarian* : Alexander Marx.

**AMERICAN MUSEUM OF NATURAL HISTORY**, 77th Street and Central Park West, New York City.

5,100 Members. 58 Fellows.

*Director*.—Frederic A. Lucas, Sc.D.

**Department of Geology and Invertebrate Paleontology.**

*Curator*.—Edmund Otis Hovey, Ph.D.

*Associate Curator Invertebrate Paleontology*.—Chester A. Reeds.

**Department of Mineralogy.**

*Curator*.—Herbert P. Whitlock.

**Department of Woods and Forestry.**

*Curator*.—Miss M. C. Dickerson.

**Department of Invertebrate Zoology.**

*Honorary Curator.*—W. M. Wheeler.

*Curator.*—Henry E. Crampton.

*Associate Curators.*—R. W. Miner. F. E. Lutz.

**Department of Ichthyology and Herpetology.**

*Honorary Curator.*—Bashford Dean.

*Associate Curator Recent Fishes.*—John T. Nichols.

*Associate Curator Herpetology.*—Miss M. C. Dickerson.

*Assistant Curator Herpetology.*—G. K. Noble.

**Department of Mammalogy and Ornithology.**

*Curator.*—J. A. Allen.

*Curator Ornithology.*—Frank M. Chapman.

*Associate Curator Mammalogy.*—R. C. Andrews.

*Associate Curator Ornithology.*—W. de W. Miller.

*Associate Curator Mammalogy.*—H. E. Anthony.

*Assistant Curator Mammalogy.*—Herbert Lang.

**Department of Vertebrate Paleontology.**

*Honorary Curator.*—Henry Fairfield Osborn.

*Curator.*—W. D. Matthew.

*Associate Curator Fossil Mammals.*—Walter Granger.

*Associate Curator Fossil Reptiles.*—Barnum Brown.

*Associate in Paleontology.*—William K. Gregory.

**Department of Anthropology.**

*Curator.*—Clark Wissler.

*Curator Ethnology.*—Pliny E. Goddard.

*Associate Curator.*—Robert H. Lowie.

*Assistant Curators.*—

Herbert J. Spinden. N. C. Nelson. C. W. Mead. Louis R. Sullivan.

**Department of Anatomy and Physiology.**

*Curator.*—Ralph W. Tower.

**Department of Public Health.**

*Curator.*—Charles-Edward A. Winslow.

**Department of Public Education.**

*Curator.*—George H. Sherwood.

*Associate Curator.*—G. Clyde Fisher.

**Books and Publications.**—Library of 60,000 volumes. *Curator.*—Ralph W Tower, Ph.D. *Assistant Librarian:* Miss I. R. Hood, A.B.

7 Assistants, 11 Research Associates.

**THE METROPOLITAN MUSEUM OF ART,**

Fifth Avenue and 82nd Street, New York.

Incorporated 1870, for the purpose of encouraging and developing the study of Fine Arts, and the application of the Arts to manufactures and practical life: advancing the general knowledge of kindred subjects, and, to that end, furnishing popular instruction.

The Museum collections include Painting, Sculpture, and Architecture. Ancient Art includes Egyptian, Babylonian, Assyrian, Phœnician, Cypriote, Etruscan, Greek, and Roman antiquities. In Painting, the attempt is made to illustrate the history of the art in antiquity, and from the Middle Ages to the present time, with especial attention to the work of American artists. The Department of Decorative Arts include works of various kinds in wood, metal, glass, etc., ceramics, tapestries, rugs, laces, and other textiles. The collections represent the Far East (China, Japan, Korea) and the Near East (Persia, India, and Asia Minor), Europe, and America. Special attention is given to American Art.

There are five study rooms, devoted respectively to textiles, European Decorative Arts, Prints, Classical and Egyptian antiquities.

The Library of the Museum contains about 33,000 volumes and 45,000 photographs, which are for the use of any visitor. *Librarian:* W. Clifford.

	1917.	1918.
Cost of administration .. ..	\$481,772.07	\$590,782.56
Part of cost received from the city ..	200,000.00	233,000.00
Total .. ..	\$281,772.07	\$357,782.56

The personnel of the Museum is as follows:

*Director.*—Edward Robinson.

*Secretary.*—Henry W. Kent.

*Assistant Director.*—Joseph Brack.

*Assistant Treasurer.*—Eliat T. Foote.

*Registrar.*—Henry F. Davidson.

#### Department of Paintings.

*Curator.*—Bryson Burroughs.

#### Department of Classical Art.

*Curator.*—Edward Robinson.

#### Department of Egyptian Art.

*Curator.*—Albert M. Lythgoe.

#### Department of Decorative Arts.

*Curator.*—Joseph Breck.

#### Department of Arms and Armour.

*Curator.*—Bashford Dean.

#### Department of Far Eastern Art.

*Curator.*—S. C. Bosch Reitz.

#### Department of Prints.

*Curator.*—William M. Ivins, jr.

### NEW YORK ACADEMY OF SCIENCES.

c/o The American Museum of Natural History, New York.

Founded in 1817 as the Lyceum of Natural History, chartered as the New York Academy of Sciences in 1876. Has 624 Members, besides 39 Honorary Members and 106 Corresponding Members. Weekly meetings at The American Museum of Natural History, October to May, inclusive.

#### OFFICIALS.

*President.*—Edward L. Thorndike.

*Recording Secretary.*—R. W. Tower (American Museum of Natural History).

*Corresponding Secretary.*—H. E. Crampton (American Museum of Natural History).

*Editor and Librarian.*—R. W. Tower.

*Library.*—12,000 volumes in The American Museum of Natural History.

#### Publications :

Annals of the Lyceum of Natural History, eleven volumes, 1824-1876.

Proceedings of the Lyceum of Natural History, Series 1-11, 1870-1874.

Transactions of the New York Academy of Sciences, sixteen volumes, 1881-1897.

Memoirs of the New York Academy of Sciences, Vol. I., Astronomy; Vol. II., Zoology.

Annals of the New York Academy of Sciences, twenty-eight volumes, 1879-1919.

Reports of the Scientific Survey of Porto Rico and the Virgin Islands, Vol. I., Part I., 1919.

**THE AMERICAN ORIENTAL SOCIETY**, was founded in 1842 for the promotion of Oriental studies, the encouragement of research in Eastern languages and literatures, and the publication of books and papers dealing with these subjects. More recently the Society has included in its field of activity also the historical study of religion in its widest scope, and a special session at the annual meeting is now devoted to this subject, and to communications of more general interest.

#### OFFICIALS.

*President.*—Prof. Charles R. Lanman, 9, Farrar Street, Cambridge, Mass.

*Corresponding Secretary.*—Dr. Charles J. Ogden, 628, West 114th Street, New York City.

*Recording Secretary.*—Prof. Le Roy C. Barret, Trinity College, Hartford, Conn.

*Librarian and Treasurer.*—Prof. Albert T. Clay, 401, Humphrey Street, New Haven, Conn.

*Editors of the Journal.*—Profs. James A. Montgomery and Franklin Edgerton.

*Publications.*—Journal, Vols. I. to XXXIX. (current), from 1843 to date.

*Library.*—Contains over 5,000 volumes and 200 MSS.

THE NEW YORK ACADEMY OF MEDICINE, 17, 19, and 21, West 43rd Street,  
New York, N.Y.

Instituted 1847. Incorporated 1851.

*Membership* : 1,300 Resident Fellows, 250 Non-Resident Fellows,  
250 Associate Fellows.

Honorary Fellowship limited to fifty.

*Objects*.—The advancement of the Science and Art of Medicine, the maintenance of a Public Medical Library, and the Promotion of Public Health.

*President*.—G. D. Stewart, M.D.

*Recording Secretary*.—R. S. Haynes, M.D.

*Corresponding Secretary*.—D. Bryson-Delavan, M.D.

*Treasurer*.—S. M. Milliken, M.D.

*Library*.—114,201 volumes. *Librarian* : J. S. Brownne.

AMERICAN GEOGRAPHICAL SOCIETY, Broadway at 156th Street, New York City.  
(1852.)

Members, 3,771.

*President*.—John Greenough.

*Director and Editor*.—Isaiah Bowman.

*Medals* : Cullum Geographical Medal, Charles P. Daly Medal, David Livingstone Centenary Medal of the Hispanic Society of America.

*Library*.—53,995 books, 41,563 maps.

*Publications* :

Journal and Bulletin (1852-1915).

Geographical Review (since 1916), containing authoritative articles of general interest.

Journal of Geography (since January, 1919), devoted to the educational aspect of the subject.

Series of Monographs (1 volume annually), Occasional Maps.

AMERICAN CHEMICAL SOCIETY, New York. (1876.)

Membership (1919), 13,410.

*President*.—W. H. Nichols, 25, Broad Street, New York City.

*Secretary*.—C. L. Parsons, Box 505, Washington, D.C.

*Treasurer*.—E. G. Love, 124E, 15th Street, New York City.

The object of the Society is the advancement of chemistry and the promotion of chemical research.

#### DIVISIONS.

There are nine divisions of the Society :

*Agricultural and Food Chemistry*.—W. D. Richardson.

*Biological Chemistry*.—I. K. Phelps.

*Fertilizer Chemistry*.—F. B. Carpenter.

*Industrial Chemistry and Chemical Engineering*.—H. S. Miner.

*Organic Chemistry*.—L. W. Jones.

*Pharmaceutical Chemistry*.—F. O. Taylor.

*Physical and Inorganic Chemistry*.—W. E. Henderson.

*Rubber Chemistry*.—J. B. Tuttle.

*Water, Sewage and Sanitation Chemistry*.—R. S. Weston.

The Society affords especial facilities for chemists interested in a particular branch of the science to organize themselves into a representative body within its ranks. There are also fifty-six local sections which hold monthly meetings.

The Society publishes three journals :

Journal of the American Chemical Society (now in its 41st volume). *Editor* : A. B. Lamb, Harvard University, Cambridge, Mass.

Chemical Abstracts (now in its 13th volume). *Editor* : E. J. Crane, Ohio State University, Columbus, O.

Journal of Industrial and Engineering Chemistry (now in its 11th volume). *Editor* : C. H. Herty, 35E, 41st Street, New York City.



**AMERICAN SOCIETY FOR PSYCHICAL RESEARCH**, 44, East 23rd Street, New York. (1884.)

*Secretary*.—J. H. Hyslop, Ph.D., LL.D.

**THE GEOLOGICAL SOCIETY OF AMERICA.** (1888.)

c/o American Museum of Natural History, 77th Street and Central Park West, New York City.

Members, 441.

*President*.—Dr. J. C. White, Morgantown W., Va.

*Secretary*.—Dr. E. Otis Hovey.

**Object of the Organization**.—To promote the Science of Geology in North America.

**AMERICAN MATHEMATICAL SOCIETY**, 501, West 116th Street, New York City.

Organized as the New York Mathematical Society, 1888. Reorganized as the American Mathematical Society, 1894.

**Objects**.—To encourage and maintain an active interest in Mathematical Science.

*President*.—Prof. Frank Morley, Johns Hopkins University.

*Secretary*.—Prof. F. N. Cole, Columbia University.

Meetings are held ten times a year, in New York, Chicago, and other cities. Membership, 740.

**Publications** : Bulletin (1891). Transactions (1900). Colloquium Lectures (1905).

**CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING,**

576, Fifth Avenue, New York.

Founded in 1905 by the late Andrew Carnegie.

The Foundation grants retiring allowances to professors, and pensions to their widows, in a group of seventy-six Universities and Colleges; the Institutions being selected in the United States, Canada, and Newfoundland for their educational qualifications. During the thirteen years ending June 30, 1918, pensions and allowances had been granted, representing an expenditure of \$6,250,000.

The Division of Educational Enquiry, established in 1913, has issued a dozen bulletins including comprehensive studies of Medical Education, Engineering Education, Legal Education, and the Preparation of Teachers. The publications of the Foundation are distributed without charge.

The Foundation was incorporated by the United States Congress. It is administered by a board of twenty-five trustees, the presidents of Columbia, Harvard, McGill, Toronto, Yale, and other representative Universities and Colleges. The officers are:

*President*.—H. S. Pritchett.

*Treasurer*.—R. A. Franks.

*Secretary*.—Clyde Furst.

**PSYCHIATRIC INSTITUTE OF THE NEW YORK STATE HOSPITALS,**

Ward's Island, New York City, N.Y.

Central Laboratory, Clinical Research and Teaching Institute for the State Hospitals of New York.

**Purpose**.—Conducting Research Work in the Field of Psychiatry, with the co-operation of the physicians of the various State hospitals. Psychiatric training and teaching of the physicians in the State hospitals.

OFFICIALS.

*Director*.—G. H. Kirby, M.D.

*Assistant Director*.—C. O. Cheney, M.D.

*Chief Associate in Neuropathology*.—C. B. Dunlap, M.D.

3 Physician Assistants, 5 Laboratory Assistants.

**Library**.—4,500 volumes.

# PALEONTOLOGICAL SOCIETY.

Paleontological Society of America founded in 1908. Affiliated with Geological Society of America. Publishes results only in Bulletin of Geological Society of America. 190 members in 1919.

## OFFICIALS.

*President.*—R. T. Jackson, Peterborough, New Hampshire.  
*Secretary.*—R. S. Bassler, Washington, D.C.

## THE NEW YORK BOTANICAL GARDENS, Bronx Park, New York City. (1896.)

### STAFF.

*Director-in-Chief* (Development, Administration).—N. L. Britton.  
*First Assistant* (Administration).—H. A. Gleason.  
*Supervisor of Public Instruction.*—W. A. Merrill.  
*Head Curator of the Museums* (Flowering Plants).—J. K. Small.  
*Curator* (Flowering Plants).—P. A. Rydberg.  
*Curator* (Flowerless Plants).—M. A. Howe.  
*Curator* (Flowerless Plants).—F. J. Seaver.  
*Administrative Assistant.*—R. S. Williams.  
*Associate Curator.*—P. Wilson.  
*Associate Curator.*—F. W. Pennell.  
*Head Gardener.*—G. V. Nash,  
*Director of the Laboratories.*—A. B. Stout.  
*Bibliographer.*—J. H. Barnhart.  
*Honorary Curator of the Economic Collections.*—H. H. Rusby.  
*Honorary Curator of Mosses.*—Mrs. E. G. Britton.  
*Honorary Curator of Fossil Plants.*—A. Hollick.  
*Consulting Chemist.*—W. J. Gies.  
*Landscape Engineer.*—J. R. Brinley.  
*Supervisor of Gardening Instruction.*—K. R. Boynton.

The garden occupies 400 acres. It contains a large Museum of Economic Botany, Fossil Plants, and Systematic Collection, extensive greenhouses, outdoor gardens of hardy plants, and a Herbarium of 1,500,000 sheets, also Laboratories properly equipped for botanical research.

### Publications.—

Journal of the New York Botanical Garden (monthly), \$1.00 per year (not offered in exchange).  
Mycologia (bi-monthly), \$4.00 per year (not offered in exchange).  
Addisonia (quarterly), \$10.00 per year (not offered in exchange).  
Bulletin of the New York Botanical Garden, \$3.00 per volume (offered in exchange).  
North America Flora, \$1.50 per part, four or more parts to a volume (not offered in exchange).  
Memoirs of the New York Botanical Garden, \$3.00 per volume (not offered in exchange).  
Contributions from the New York Botanical Garden, \$5.00 per volume.

Library.—30,000 volumes. *Librarian*: Miss S. H. Harlow.

## NEW ZEALAND, UNIVERSITY OF. See WELLINGTON.

## NORFOLK (Virginia).

### TRUCK STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—T. C. Johnson.

## NORMAN

### UNIVERSITY OF OKLAHOMA, Norman, Oklahoma. (1892.)

Tuition is free to residents of the State. The Institution has had a very rapid growth both in size and in strength in the past six years.

The third and fourth years of the Medical School are situated at Oklahoma City, 18 miles from Norman.

*Terms* : Two semesters and a summer session. *Students* : 3,256.

*Budget* (1919-1920):

Maintenance .. .. .	\$567,849.00
Buildings .. .. .	\$240,110.37

#### OFFICIALS.

*President*.—Stratton Duluth Brooks.

*Vice-President*.—Edwin De Barr.

*Secretary and Registrar*.—Errett Rains Newby.

*Financial Clerk*.—Josiah Lawrence Lindsey.

*Librarian*.—Jesse Lee Rader.

A Dean acts as the head of each of the major Schools and Colleges. A Director is at the head of the subordinate Schools.

**Degrees conferred**.—B.A., B.S., B.S. in M.E., C.E., in Chem. E., M.E. in Engineering and Geology, M.D., B.M., B.F.A., B.S. in Pharmacy, Ph.C., Ph.G., LL.B., M.A., M.S. in Engineering, Chem. E., C.E., E.E.

#### PROFESSORS.

##### COLLEGE OF ARTS AND SCIENCES.

*Dean*.—J. S. Buchanan.

##### Professors :

[ology.

J. F. Paxton, *Greek and Classical Arche-*

J. W. Sturgis, *Latin*.

S. W. Reaves, *Mathematics*.

S. R. Hadsell, *English*.

G. Y. Williams, *Physical Chemistry*.

H. H. Lane, *Zoology*.

J. Dowd, *Sociology*.

T. H. Brewer, *English*.

L. Dora, *French*.

W. P. Hasaman, *Physics*.

J. Alley, *Government*.

R. T. House, *German*.

A. C. Parsons, *Secondary Education*.

W. W. Phelan, *Psychology and Education*.

A. C. Scott, *University Extension*.

J. W. Scroggs, *University Extension*.

W. A. Schmidt, *Educational Administration*.

R. G. Soutar, *Physical Education*.

P. Gimeno, *Spanish*.

H. H. Herbert, *Journalism*.

A. B. Adams, *Economics*.

##### Associate Professors :

M. A. Floyd, *History*.

J. H. Voss, *German*.

P. R. Duval, *Mathematics*.

F. F. Blachly, *Government*.

U. J. Griffith, *Secondary Education*.

J. W. Bridges, *Agricultural Education*.

F. W. Padgett, *Chemistry*.

##### Assistant Professors :

A. R. Ramey, *English*.

B. G. Owen, *Physical Education*.

H. C. Gossard, *Mathematics*.

A. Steitz, *German*.

I. M. Rapp, *Physics*.

V. E. Monnett, *Geology*.

A. H. Stang, *Physics*.

E. N. Ferriss, *Education*.

##### Assistant Professors—Continued :

N. Altshiller, *Mathematics*.

E. E. Dale, *History*.

C. E. Decker, *Geology*.

L. N. Morgan, *English*.

T. B. Robb, *Economics*.

A. J. Williams, *Geology*.

J. R. Cable, *Economics*.

H. E. Cunningham (Miss), *Philosophy*.

H. B. Davis, *Secondary Education*.

R. Martin, *Spanish*.

M. J. Mitchell (Miss), *Correspondence Study*.

T. F. Pierce, *Education*.

H. J. Hopkins (Miss), *Domestic Science*.

S. M. Salyer, *English*.

F. E. Tarman, *Journalism*.

##### COLLEGE OF ENGINEERING.

*Dean*.—J. H. Felgar.

##### Professors :

J. I. Tucker, *Civil Engineering*.

L. W. Morrow, *Electrical Engineering*.

H. L. Whittemore, *Mechanics*.

##### Associate Professors :

J. C. Davis, *Mechanics*.

F. G. Tappan, *Electrical Engineering*.

R. C. Terrell, *Highway Engineering*.

##### Assistant Professors :

L. C. Lichty, *Mechanical Engineering*.

G. B. Helmrich .. .. .

##### COLLEGE OF MEDICINE AND PHARMACY.

*Dean*.—Le Roy Long (Medicine).

*Dean*.—D. B. R. Johnson (Pharmacy).

##### Professors :

L. A. Turley, *Histology and Pathology*.

A. K. West, *Medicine*.

E. S. Ferguson, *Ophthalmology*.

L. H. Buxton, *Otology, Rhinology, and Laryngology*.

G. Ellison, *Bacteriology*.

**Professors—Continued :**

- J. S. Hartford, *Gynecology*.  
 L. B. Nice, *Physiology*.  
 A. Young, *Neurology*.  
 J. W. Duke, *Mental Diseases and Jurisprudence*.  
 R. M. Hargrove, *Anatomy*.  
 J. A. Hatchett, *Obstetrics*.

**Associate Professors :**

- R. M. Howard, *Surgery*.  
 J. W. Riely, *Genito-Urinary Surgery*.  
 H. Reed, *Surgery*.  
 A. L. Blesh, *Surgery*.  
 E. F. Davis, *Ophthalmology*.  
 G. A. La Motte, *Medicine*.  
 L. J. Moorman, *Medicine*.  
 L. A. Riley, *Medicine*.  
 H. C. Todd, *Otology, Rhinology, and Laryngology*.  
 S. R. Cunningham, *Gynecology*.  
 R. L. Hull, *Orthopedic Surgery*.  
 E. S. Lain, *Dermatology, Electro-Therapy, and Radiography*.  
 R. E. Looney, *Obstetrics*.  
 M. Smith, *Clinical Surgery*.  
 W. M. Taylor, *Pediatrics*.  
 A. W. White, *Medicine*.  
 J. M. Alford, "  
 W. F. Dixon, *Otology, Rhinology, and Laryngology*.  
 D. W. Griffin, *Mental Diseases and Medical Jurisprudence*.  
 W. Langston, *Clinical Pathology*.  
 F. B. Sorgatz, "  
 W. J. Wallace, *Genito-Urinary Diseases and Syphilology*.

**Assistant Professors :**

- J. F. Kuhn, *Surgery*.  
 J. T. Martin, *Medicine*.

**Post-Graduate Courses.**—Post-Graduate work is offered leading to Academic, Scientific, and Engineering Graduate degrees.

**Museums.**—The botanical, zoological, paleontological collections are excellent. They include the Carroll collection of eggs, birds, animals, and shells, and the Dorrance collection of butterflies and moths, comprising about 650 species collected in Costa Rica. The paleontology collection includes the Bennet collection of about 10,000 fossils.

The School of Medicine has a good collection of gross and microscopic pathologic specimens.

The University historical and ethnological collections contain many valuable and interesting specimens.

49 Instructors, 6 Assistants, 2 Teaching Fellows, 39 Special Lecturers.

**NORTH CAROLINA, UNIVERSITY OF.** See CHAPEL HILL.

**NORTH DAKOTA, UNIVERSITY OF.** See GRAND FORKS.

**NORTHAMPTON INSTITUTE.** See LONDON.

**NORTHAMPTON (Massachusetts).**

**SMITH COLLEGE,** Northampton, Mass. (1875.)

*Terms :* Two semesters a year.

*Students :* 2,010.

**Assistant Professors—Continued :**

- J. F. Messenbaugh, *Pediatrics*.  
 A. A. Will, *Rectal Surgery*.  
 F. J. Bolend, *Medicine*.  
 T. C. Burns, *Neurology*.  
 L. E. Andrews (Miss), *Pediatrics*.  
 J. A. Reck, *Gynecology*.  
 C. J. Fishman, *Medicine*.  
 W. A. Fowler, *Obstetrics*.  
 R. G. Bolend, *Genito-Urinary Diseases and Syphilology*.  
 C. E. Clymer, *Surgery*.

**SCHOOL OF LAW.**

*Dean.*—J. C. Monnet.

**Professors :**

- H. H. Foster, *Law*.  
 J. B. Cheadle, "  
 V. H. Kulp, "  
 J. W. Madden, "  
 L. P. Wilson, "

**SCHOOL OF FINE ARTS.**

*Dean.*—Fredrik Holmberg.

**Professors :**

- E. E. Dungan (Miss), *Music and Piano*.  
 C. F. Giard, *Piano and Theory of Music*.

**Associate Professors :**

- P. S. Carpenter, *Violin*.  
 O. B. Jacobson, *Art*.  
 L. S. Salter, *Piano and Theory of Music*.  
 G. F. W. Schmidt, *Voice*.

**Assistant Professors :**

- A. Bragg (Miss), *Voice*.  
 F. Kuschan, *Music*.  
 O. A. J. Lehrer, *Music*.  
 M. F. Gibbons (Miss), *Violin*.

## OFFICIALS.

*President.*—W. A. Neilson, Ph.D., LL.D.

*Registrar.*—Miss M. Eastman, A.B.

*Treasurer.*—George B. McCullam, A.B.

Degrees conferred.—A.B., A.M., Ph.D., B.S., M.S.

## PROFESSORS.

## Professors :

- E. P. Cushing (Miss), *Mathematics*.  
 M. A. Jordan (Miss), *English Language and Literature*.  
 H. N. Gardiner, *Philosophy*.  
 D. W. Tryon, *Art*.  
 J. E. Brady, *Latin Language and Literature*.  
 H. H. Wilder, *Zoology*.  
 I. F. Wood, *Biblical Literature and Comparative Religion*.  
 W. F. Ganong, *Botany*.  
 F. A. Waterman, *Physics*.  
 E. H. Mensel, *Germanic Languages and Literature*.  
 C. F. Emerick, *Economics and Sociology*.  
 H. D. Sleeper, *Music*.  
 J. H. Caverno (Miss), *Greek*.  
 E. D. Hanscom, *English Language and Literature*.  
 A. A. Cutler (Miss), *Philosophy*.  
 A. V. Churchill, *History and Interpretation of Art*.  
 J. S. Bassett, *American History*.  
 R. E. S. Olmsted, *Vocal Music*.  
 H. W. Bigelow (Miss), *Astronomy*.  
 F. Gilman (Miss), *Hygiene*.  
 C. B. Bourland (Miss), *Spanish Language and Literature*.  
 A. Schinz, *French Language and Literature*.  
 H. V. Abbott, *English Language and Literature*.  
 E. Kimball, *History*.  
 C. F. A. Lange, *German*.  
 L. Delpit (Miss), *French Language and Literature*.  
 R. G. Wood (Miss), *Mathematics*.  
 W. J. Miller, *Geology*.  
 D. C. Rogers, *Psychology*.  
 S. B. Fay, *European History*.  
 S. N. Deane, *Greek*.  
 H. R. Cobb (Miss), *Mathematics*.  
 A. H. Abel (Miss), *History*.  
 J. E. Goldthwait, *Hygiene*.  
 R. A. Rico, *English Language and Literature*.  
 R. Piccoli, *Italian*.  
 F. A. Gragg (Miss), *Latin*.  
 R. S. Smith, *Biblical Literature*.  
 J. C. Hildt, *History*.  
 A. L. Barbour (Miss), *Greek*.  
 R. W. Holmes (Miss), *Music*.  
 R. Michaud (Miss), *French Language and Literature*.

## Associate Professors :

- M. B. McElwain (Miss), *Latin*.  
 F. S. Chapin, *Economics and Sociology*.  
 L. A. Bliss (Miss), *Latin*.  
 E. P. Cook (Miss), *Chemistry*.  
 J. W. Snow (Miss), *Botany*.  
 E. Bates (Miss), *Music*.  
 E. S. Mason (Miss), *Chemistry*.  
 L. S. Cheever (Miss), *English Language and Literature*.  
 M. B. Fuller (Miss), *History*.  
 F. G. Smith (Miss), *Botany*.  
 W. D. Gray, *History*.  
 J. Wiehr, *German*.  
 M. Bradshaw (Miss), *English Language and Literature*.  
 A. A. Heine (Miss), *Geology*.  
 S. R. Benedict (Miss), *Mathematics*.  
 M. L. Foster (Miss), *Chemistry*.  
 I. W. Wilder, *Zoology*.  
 A. W. Locke, *Music*.  
 M. M. Hopkins (Miss), *Astronomy*.  
 W. T. Moog, *Music*.  
 H. G. Townsend, *Education*.  
 M. D. Lewis (Miss), *English Language and Literature*.  
 R. D. Welch, *Music*.  
 E. Lowenthal (Miss), *Economics and Sociology*.  
 O. T. Robert, *French Language and Literature*.  
 J. Y. Cann (Miss), *Chemistry*.  
 H. M. Parshley, *Zoology*.  
 M. Rooke (Miss), *Italian Language and Literature*.  
 A. T. Jones, *Physics*.  
**Assistant Professors :**  
 A. E. Miller (Miss), *German*.  
 B. Strong (Miss), *Art*.  
 H. De W. Carrington, *German*.  
 L. S. Clark (Miss), *Chemistry*.  
 F. W. Wright, *Latin*.  
 S. A. Elkus (Miss), *Philosophy*.  
 H. I. Williams (Miss), *French*.  
 H. M. King (Miss), *French*.  
 E. A. Shearer (Miss), *Education*.  
 P. R. Lieder, *English Language and Literature*.  
 R. Withington, *English Language and Literature*.  
 S. H. Hamilton (Miss), *Music*.  
 S. M. Rambo (Miss), *Mathematics*.  
 M. M. Cook (Miss), *French*.  
 H. A. Choate (Miss), *Botany*.  
 M. M. Sampson (Miss), *Zoology*.



**Assistant Professors—Continued :**

B. Goode (Miss), *Music*.  
 E. Richards (Miss), *Hygiene*.  
 L. Hatch (Miss), *Geology*.  
 M. C. G. Woodhouse, *Economics and Sociology*.  
 H. Senseney, *Art*.  
 S. A. Eliot, *English Language and Literature*.  
 H. R. Patch, *English*.

**Assistant Professors—Continued.**

E. V. Loudon (Mrs.), *Spoken English*.  
 T. H. Port, *Music*.  
 A. Gleason (Miss), *Music*.  
 E. T. Woodhouse, *History*.  
 R. Lansing (Miss), *Spanish*.  
 J. Draehsler, *Economics and Sociology*.  
 60 Instructors, 17 Assistants, 10 Readers and Demonstrators.

**Post-Graduate Courses.—A.M. and Ph.D.**

**NOTTINGHAM**

**UNIVERSITY COLLEGE, Nottingham. (1880.)**

*Terms :* Three per year.

**OFFICIALS.**

*President.*—His Grace The Duke of Portland, K.E.  
*Principal.*—W. H. Heaton, M.A.  
*Registrar.*—J. E. Shimold.

**Degrees conferred.**—B.A., M.A., B.D., B.Sc., M.Sc.

**PROFESSORS.**

**Professors :**

R. W. Bond, *English*.  
 M. L. R. Beaven, *History*.  
 F. S. Granger, *Classics*.  
 E. Weekley, *Modern Languages*.  
 A. W. Kirkaldy, *Economics*.  
 A. Henderson, *Education*.  
 A. Gill, *Music*.  
 H. T. H. Pieggis, *Mathematics*.

**Professors—Continued :**

E. H. Breton, *Physic*.  
 F. S. Kipping, *Chemistry*.  
 J. W. Carr, *Biology*.  
 H. H. Swinnerton, *Geology*.  
 C. H. Balleid, *Engineering*.  
 W. Robinson, *Technology*.  
 W. H. McMillan, *Mining*.  
 60 Lecturers, Assistants, etc.

**OBERLIN (Ohio).**

**OBERLIN COLLEGE, Oberlin, Ohio. (1833.)**

*Terms :* Two semesters.

*Students :* 1,500.

*Budget :* \$675,000 a year.

**OFFICIALS.**

*President.*—Henry Churchill King, D.D., LL.D., L.H.D.  
*Dean of the College of Arts and Sciences.*—C. N. Cole, Ph.D.  
*Dean of the School of Theology.*—E. I. Bosworth, D.D.  
*Director of the Conservatory of Music.*—C. W. Morrison, Mus.D.  
*Secretary.*—G. M. Jones, A.M.  
*Assistant President.*—W. F. Bohn, A.M.  
*Treasurer.*—H. B. Thurston, Ph.B.  
*Assistant Secretary.*—J. E. Wirkler, A.M.  
*Librarian.*—A. S. Root, A.M.

**Degrees conferred.**—A.B., A.M., Mus.B., Mus.M., D.B., S.T.M.

**PROFESSORS.**

**FACULTY OF ARTS AND SCIENCES.**

**Professors :**

A. S. Root, *Bibliography*.  
 C. B. Martin, *Greek Literature and Greek Archeology*.  
 F. Anderogg, *Mathematics*.  
 F. E. Leonard, *Hygiene and Physical Education*.

**Professors—Continued :**

A. M. Abbott (Miss), *German Language and Literature*.  
 D. Hanna (Miss), *Physical Education*.  
 S. F. MacLennan, *Philosophy and Comparative Religion*.  
 F. O. Grover, *Botany*.  
 C. H. A. Wager, *English*.  
 E. A. Miller, *Education*.

# Professors—Continued :

C. N. Cole, *Latin*.  
F. M. Fitch (Miss), *Biblical Literature*  
(*Dean of Women*).  
C. W. Savage, *Physical Education* :  
*Director of Athletics*.  
K. F. Geiser, *Political Science*.  
R. H. Stetson, *Psychology*.  
S. R. Williams, *Physics*.  
L. E. Lord, *Latin Language and Literature*.  
G. D. Hubbard, *Geology and Geography*.  
R. A. Budington, *Zoology*.  
C. G. Rogers, *Comparative Physiology*  
*in the Department of Zoology*.  
D. R. Moore, *Medieval and Modern*  
*European History*.  
H. L. Lutz, *Economics*.  
H. A. Miller, *Sociology*.  
H. N. Holmes, *Chemistry*.  
C. Ward, *History and Appreciation of*  
*Art*.

# Associate Professors :

W. D. Cairns, *Mathematics*.  
K. L. Cowdery, *French*.  
R. P. Jameson, *Romance Languages*.  
T. N. Metcalf, *Physical Education*.  
H. Clark, *Physics*.  
F. J. Hosford (Miss), *Acting Dean of*  
*Women*.  
L. Jones, *Animal Ecology*.  
P. D. Sherman, *English*.  
E. M. Oakes (Miss), *Drawing and*  
*Painting*.  
M. E. Sinclair (Miss), *Mathematics*.  
W. H. Chapin, *Chemistry*.  
R. A. Jelliffe, *English Composition*.  
J. C. McCullough, *Chemistry*.  
S. P. Nichols (Miss), *Botany*.  
H. F. Cochran (Miss), *Physical Educa-*  
*tion*.  
E. M. Kitch (Miss), *Philosophy*.

# Assistant Professors :

L. Alexander, *Latin and Greek*.  
C. C. W. Nicol, *Psychology and Philos-*  
*ophy (Dean of Men)*.  
H. L. King, *History*.  
A. I. Taft, *English*.  
E. S. Jones, *Psychology*.  
J. Speelman, *Physical Education*.  
H. H. Preston, *Economics*.  
E. L. Baker, *French*.  
H. Kyrk (Miss), *Economics*.  
J. B. de Forest, *French*.  
J. F. Mack, *English*.

# Museums.—

Zoological Museum. *Curator* : L. Jones.  
Art Museum. *Director* : C. Ward.

# Assistant Professors—Continued :

L. F. Keller, *Physical Education*.  
R. S. McEwen, *Zoology*.  
G. S. Skinner, *Chemistry*.  
D. Edwards, *Oratory*.  
18 Instructors, 6 Assistants.

# GRADUATE SCHOOL OF THEOLOGY.

## Professors :

H. C. King, *Theology and Philosophy*.  
E. I. Bosworth, *New Testament Lan-*  
*guage and Literature*.  
G. W. Fiske, *Practical Theology*.  
K. Fullerton, *Old Testament Language*  
*and Literature*.  
W. J. Hutchins, *Homiletics*.  
I. C. Hannah, *Church History*.  
H. A. Youtz, *Philosophy of Religion*  
*and Christian Ethics*.  
L. F. Miskovsky (Principal of Slavic  
Department), *Bohemian Language*.

# THE CONSERVATORY OF MUSIC.

## Professor :

H. H. Carter, *Pianoforte*. [tion.  
G. W. Andrews, *Organ and Composi-*  
A. S. Kimball, *Singing*.  
E. Dickinson, *History and Criticism*  
*of Music*.  
E. G. Sweet, *Singing*.  
W. K. Breckenridge, *Pianoforte*.  
A. E. Heacox, *Theory*.  
C. K. Barry, *Pianoforte*.  
W. T. Upton     "  
H. Harroun, *Singing*.  
C. H. Adams     "  
F. J. Lehmann, *Theory*.  
W. J. Horner, *Singing*.  
G. C. Hastings, *Pianoforte*.  
F. A. Goerner, *Violoncello*.  
O. A. Lindquist, *Pianoforte*.  
F. G. Nash (Miss), *Dramatic Expres-*  
*sion (Dean of Women)*.  
M. Koessler, *Violin and Ensemble*.  
B. H. Davis, *Pianoforte*.  
K. W. Gehrkens, *School Music*.  
F. B. Stiven, *Organ*.

## Assistant Professors :

M. J. Adams (Mrs.), *Singing*.  
A. M. Hastings (Mrs.), *Pianoforte*.  
A. H. Doolittle (Mrs.)     "  
B. A. Miller (Mrs.)     "  
M. U. Bennett (Mrs.),     "  
W. H. Frederick, *Wind Instruments*.  
7 Instructors.

OHIO ACADEMY OF SCIENCE. *See* COLUMBUS.

STATE UNIVERSITY. *See* COLUMBUS.

OHIO UNIVERSITY. *See* ATHENS.

OHIO WESLEYAN UNIVERSITY. *See* DELAWARE.OKLAHOMA UNIVERSITY. *See* NORMAN.

## OMAHA (Nebraska).

THE CREIGHTON UNIVERSITY, Omaha, Nebraska. (1878.)

*Students* : 1,061.*Budget* : Productive Endowment, \$2,750,000.

## OFFICIALS.

*President*.—Rev. J. McCormick, S.J.*Dean, College of Law*.—(Vacant.)*Dean, College of Dentistry*.—A. H. Hipple.*Dean, College of Pharmacy*.—H. C. Newton.*Dean, College of Medicine*.—H. Von W. Schulte.*Dean, College of Arts and Sciences*.—Rev. R. M. Kelley, S.J.

Degrees conferred.—A.B., B.S., Ph.B., B.Litt., A.M., LL.B., M.D., D.D.S.

## PROFESSORS.

## COLLEGE OF ARTS AND SCIENCES.

## Professors :

C. M. Bakewell, *Greek*.Rev. W. Padberg, *Latin*.Rev. F. B. Cassilly, *Pedagogy and Christian Doctrine*.B. Damilano, *Spanish*.Rev. J. B. De Shryver, *French*.J. F. M. Duchren, *French*.Rev. A. M. Effinger, *English and Political Economy*.Rev. W. J. Corbey, *English*.Rev. A. Kaufmann, *History and German*.Rev. L. Kellinger, *Public Speaking*.J. E. Kenny, *Spanish*.Rev. J. A. Krance, *Chemistry and German*.T. E. Mills, *Athletics*.M. A. Schaefer, *Biology*.Rev. W. P. Quinlan, *Philosophy and Mathematics*.Rev. F. X. Reilly, *English and Christian Doctrine*.Rev. W. F. Rigge, *Physics and Astronomy*.Rev. F. A. Meyer, *Psychology and Ethics*.Rev. J. A. Weis, *Latin*.

## COLLEGE OF DENTISTRY.

## Professors :

A. H. Hipple, *Operative Dentistry*.E. H. Bruening, *Dental Anatomy*.B. H. Harms, *Anesthesia and Oral Surgery*.T. T. Harris, *Radiology*.H. E. King, *Clinical Practice*.R. Kleyla, *Physical Diagnosis*.E. H. Orehard, *Technical Drawing*.W. L. Ross, *Dental Neurology*.

## Professors—Continued :

O. Runyan, *Radiology*.J. A. Sanders, *Anatomy*.W. H. Sherraden, *Prosthetic and Clinical Dentistry, Crown and Bridge Work*.W. Sorenson, *Technical Drawing*.W. E. Stoft, *Orthodontia*.C. J. Wonder, *Oral Surgery*.C. E. Woodbury, *Gold Foil Manipulation*.

1 Lecturer, 11 Demonstrators.

## COLLEGE OF LAW.

## Professors :

H. F. Gillespie, *Law*.

A. H. Bigelow "

D. J. Burke "

J. M. Fitzgerald "

N. D. Reardon "

W. P. Sternberg "

L. T. Te Pool "

11 Lecturers.

## COLLEGE OF PHARMACY.

## Professors :

H. C. Newton, *Pharmacy*.A. L. Muirhead, *Pharmacology*.

2 Lecturers.

## COLLEGE OF MEDICINE.

## Professors :

W. J. Nolan, *Chemistry*.V. J. Fitz-Simon, *Chemistry*.H. F. Gerald, *Histology and Physiology*.J. S. Foote, *Pathology*.J. M. Barstow, *Therapeutics*.R. Rix, *Gynecology*.B. M. Riley, *Medicine*.H. L. Akin, *Clinical Medicine*.A. Mack, *Obstetrics*.H. L. Arnold, *Ophthalmology*.A. D. Dunn, *Medicine*.

**Professors—Continued :**

G. F. Simanek, *Surgery*.  
 A. F. Tyler, *Clinical Roentgenology*.  
 A. Sachs, *Clinical Medicine*.  
 C. McMartin, *Dermatology and Genito-Urinary Diseases*.  
 A. K. Detwiler, *Clinical Therapeutics*.  
 N. Jones, *Pediatrics*.  
 S. Morgulis, *Physiology and Bio-Chemistry*.  
 H. Von W. Schulte, *Anatomy*.  
 A. J. Brown, *Surgery*.  
 H. N. Stevenson, *Bacteriology and Surgical Pathology*.  
 T. J. Dwyer, *Surgery*.  
 S. McCleneghan, *Obstetrics*.  
 L. A. Dermody, *Orthopedics*.  
 F. J. Langdon, *Surgery*.  
 F. J. Schieier, ..  
 M. Wohl, *Clinical Pathology*.  
 L. B. Bushman, *Otology*.

**Libraries.—**

The Creighton University Library. *Librarian* : Rev. W. T. Kinsella.  
 The Creighton Medical Library. *Librarian* : Miss L. Cranny.  
 The Creighton Law Library. *Librarian* : H. F. Gillespie.  
 The Creighton Dental Library. *Librarian* : C. E. Burns.

**Museum.**—The Creighton University Museum. *Curator* : Rev. W. F. Rigge.

**Post-Graduate Courses.**—Leading to M.A. and P.C.

**UNIVERSITY OF NEBRASKA COLLEGE OF MEDICINE**, Medical Campus, 42 and Dewey Avenue, Omaha, Nebraska. (1882.)

*Terms* : One session.

*Students* : 190.

*Budget* :

For Medical College .. .. .	\$75,000 per annum.
For Hospital .. .. .	90,000 ,, ,,

**OFFICIALS.**

*Chancellor.*—S. Avery, Ph.D., LL.D.

*Dean.*—I. S. Cutter, B.Sc., M.D.

**Degree conferred.**—M.D.

**PROFESSORS.****Professors :**

A. Guenther, *Physiology*.  
 C. McCorkle Poynter, *Anatomy*.  
 W. Willard, *Anatomy*.  
 M. I. Smith, *Pharmacology*. [*ology*.  
 H. E. Eggers, *Pathology and Bacteriology*.  
 W. Bridges, *Principles and Practice of Medicine and Clinical Medicine*.  
 H. Gifford, *Ophthalmology and Otology*.  
 W. F. Milroy, *Clinical Medicine and Physical Diagnosis*.  
 A. F. Jonas, *Practice of Surgery and Clinical Surgery*.  
 H. M. McClanahan, *Pediatrics*.  
 B. B. Davis, *Principles of Surgery and Clinical Surgery*.  
 F. S. Owen, *Laryngology and Rhinology*.  
 A. Schalek, *Dermatology and Syphilology*.  
 Le Roy Crummer, *Clinical Medicine*.  
 J. P. Lord, *Orthopedic Surgery*.  
 J. E. Summers, *Clinical Surgery*.

**Professors—Continued :**

G. A. Young, *Neurology and Psychiatry*.  
 A. W. Peters, *Bio-Chemistry*.  
 A. C. Stokes, *Clinical and Experimental Surgery*.  
 C. W. Pollard, *Obstetrics*.

**Assistant Professors :**

J. S. Goetz, *Therapeutics*.  
 B. W. Christie, *Pediatrics*.  
 R. W. Bliss, *Clinical Medicine*.  
 R. R. Hollister, *Surgery*.  
 C. R. Kennedy, *Urology*.  
 J. M. Banister, *Surgery*.  
 C. C. Morrison, ..  
 E. L. Bridges, *Clinical Medicine*.  
 A. A. Johnson (Superintendent of Dispensary), *Clinical Pathology*.  
 J. T. Myers, *Bacteriology*. [*Otology*.  
 J. McDowell Patton, *Ophthalmology and*  
 E. G. Davis, *Urology*.  
 50 Instructors, Clinical Assistants, etc.

**Post-Graduate Courses.**—Post-Graduate Courses in all Departments leading to A.M., Ph.D. Courses given in conjunction with Graduate College of University.

**Library.**—The Library of the College of Medicine contains 15,000 bound volumes, 12,000 pamphlets and reprints, 140 current journals on regular subscription list. *Librarian:* Miss H. Wilson.

## ONDERSTEEPOORT (South Africa).

### DIVISION OF VETERINARY RESEARCH OF THE UNION OF SOUTH AFRICA.

The Head Laboratories are situated at Onderstepoort, seven miles north of Pretoria.

Permanent Branch Laboratories are situated at Allerton, near Maritzburg, Natal; at Grahamstown, E. Cape; and Armodsvlakte, near Vryburg, Bechuanaland.

Postal Address: Box 593, Pretoria.

#### OFFICIALS AT ONDERSTEEPOORT.

R. E. Montgomery, *Director of Veterinary Research.*  
 D. T. Mitchell, *Assistant Director of Veterinary Research.*  
 H. H. Green, *Bio-Chemist.*  
 F. Veglia, *Senior Veterinary Research Officer.*  
 E. M. Robinson, *Veterinary Research Officer.*  
 G. de Kock,                   "                   "  
 H. H. Carson,               "               "  
 T. Scheuber,               "               "  
 H. Kind                     "               "  
 C. P. Neser                 "               "

#### OFFICIAL AT ALLERTON, MARITZBURG.

W. H. Andrews, *Senior Veterinary Research Officer.*

Postal Address: Box 405, Pietermaritzburg.

#### OFFICIAL AT GRAHAMSTOWN.

(Vacant), *Senior Veterinary Research Officer.*

Postal Address: Box 41, Grahamstown.

#### OFFICIAL AT ARMODSVLAKTE, VRYBURG.

#### SPECIAL INVESTIGATIONS.

Sir Arnold Theiler, *Director of Lamziekte Research.*

Postal Address: H. Meier, *Veterinary Research Officer.* Box 14, Vryburg.

**ONTARIO AGRICULTURAL COLLEGE.** See GUELPH.

**ONTARIO VETERINARY COLLEGE.** See TORONTO.

**OREGON, UNIVERSITY OF.** See EUGENE.

**ORIENTAL COLLEGE.** See LAHORE.

**ORMONDE COLLEGE.** See MELBOURNE.

## ORONO (Maine).

**UNIVERSITY OF MAINE,** Orono, Maine. (1865.)

*Terms:* Two semesters. *Students:* (1914), 1,276; (1919), 691; (1920), 1,208.

*Budget:* \$500,000 (including extension work).

#### OFFICIALS.

*President.*—Robert Judson Aley, Ph.D., LL.D.

*Dean of the University.*—J. Norris Hart, Sc.D.

*Dean of the College of Arts and Sciences.*—J. Stacy Stevens, LL.D.

*Dean of the College of Agriculture.*—L. S. Merrill, M.D.

*Dean of the College of Technology.*—H. Sherburne Boardman, C.E.

*Director of the Agricultural Experiment Station.*—C. Dayton Woods, Sc.D.

**Degrees conferred.**—B.A., B.Sc., B.S., LL.B., M.A., M.S., LL.M., C., E.E., Ch.E., M.E.



## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

M. A. Chrysler, *Biology*.  
 Irving H. Blake, "  
 Charles H. Batchelder, *Biology*.  
 John H. Ashworth, *Economics and Sociology*.  
 E. C. Baneroff, *Economics and Sociology*.  
 J. Howard Toelle, *Economics and Sociology*.  
 Ava Chadbourne, *Education*.  
 H. M. Ellis, *English*.  
 Guy Thompson, *English*.  
 J. B. Segall, *French*.  
 F. J. Kueny, "  
 Robert R. Drummond, *German*.  
 J. H. Huddilston, *Ancient History and Art*.  
 Caroline Colvin, *History*.  
 A. A. Whitmore, "  
 G. D. Chase, *Latin*.  
 J. N. Hart, *Mathematics*.  
 H. R. Willard, *Mathematics*.  
 M. O. Tripp, *Mathematics*.  
 Capt. L. R. James, *Military*.  
 A. W. Sprague, *Music*.  
 Wallace Craig, *Philosophy*.  
 Geo. L. Rider, *Physical Education*.  
 Willis W. Harriman, *Public Speaking*.  
 J. S. Stevens, *Physics*.  
 A. L. Fitch, *Physics*.  
 Arthur G. Hisdreth, *Physics*.  
 Roy M. Peterson, *Spanish and Italian*.  
 23 Instructors.

## FACULTY OF AGRICULTURE.

## Professors :

Herbert Hiss, *Agricultural Education*.  
 Roy F. Thomas, "  
 George E. Simmons, *Agronomy*.  
 Ben C. Helmick, "  
 L. S. Corbett, *Animal Industry*.  
 L. M. Dorsey, "  
 F. L. Russell, *Bacteriology and Veterinary Science*.  
 H. W. Smith, *Bacteriology and Veterinary Science*.  
 L. H. Merrill, *Biological and Agricultural Chemistry*.

**Post-Graduate Courses.**—Post-Graduate students accepted for work leading to the degrees of M.A., M.S., LL.M.

**Libraries.**—The University Libraries contain about 65,000 volumes, of which about 55,000 are in the General Library, 4,700 in the Agricultural Experiment Station Library, and 5,500 in the Law Library. Miss E. G. Wigmore, A.B. (*in charge*); Miss H. M. De Rhodes, B.A. (*Assistant*); Miss M. Moore (*Assistant*).

**Museum of Natural History.**—Mintin Asbury Chrysler, *Curator of the Botanical and Zoological Collections*. Lucius Herbert Merrill, *Curator of the Geological Collections*.

**Societies.**—American Chemical Society.

American Institute of Electrical Engineers.

American Society of Mechanical Engineers.

Alpha Chi Sigma.

Alpha Zeta.

Phi Kappa Pi.

Tau Beta Pi.

## Professors—Continued :

John M. Briscoe, *Forestry*.  
 Frances R. Freeman, *Home Economics*.  
 Dorothea Beach, "  
 Laura Anderson, "  
 H. P. Sweetser, *Horticulture*.  
 Richard T. Muller, "  
 4 Instructors.

## FACULTY OF TECHNOLOGY.

## Professors :

C. A. Brantleeht, *Chemistry*.  
 B. F. Brann, "  
 Edward F. Rathjen, "  
 H. S. Boardman, *Civil Engineering*.  
 E. H. Sprague, "  
 A. C. Lyon, "  
 H. W. Leavitt, "  
 W. E. Barrows, *Electrical Engineering*.  
 A. S. Hill, "  
 W. J. Sweetser, *Mechanical Engineering*.  
 B. C. Kent, *Mechanical Engineering*.  
 C. P. Weston, *Mechanics and Drawing*.  
 A. L. Grover, "  
 C. M. Curl, "  
 13 Instructors.

## FACULTY OF LAW.

## Professors :

C. W. Peabody, *Law*.  
 Stacy C. Lanpher, *Law*.  
 7 Instructors and Lecturers.

FACULTY OF INVESTIGATION  
MAINE AGRICULTURAL EXP. STATION

*Director.*—C. D. Woods.  
*Chemist.*—J. M. Bartlett.  
*Assistant Pathologist.*—D. Folsom.  
*Assistant Biologist.*—J. W. Gowen.  
*Seed Analyst.*—R. L. Hammond.  
*Plant Pathologist.*—W. J. Morse.  
*Entomologist.*—Miss E. M. Patch.  
*Col. Biologist.*—R. Pearl.  
*Assistant Chemist.*—E. R. Tobey.  
*Assistant Chemist.*—C. H. White.  
*Assistant Biologist.*—J. Zimm.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—C. D. Woods.

OTAGO UNIVERSITY. *See* DUNEDIN.

OTTAWA (Canada).

THE ROYAL SOCIETY OF CANADA, Ottawa, Canada. (1882.)

*Founder:* His Grace the Duke of Argyll, K.T., etc.  
(When Governor-General of Canada in 1882.)

OFFICERS FOR 1919-1920.

*Honorary Patron.*—His Excellency The Duke of Devonshire, K.G., etc., etc.

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J. D. Denniston.

**Lecturer :**

C. R. M. F. Cruttwell.

**Chaplain :**

Rev. J. McL. Campbell.

**ST. EDMUND HALL.**

*Principal.*—Rev. Henry Herberts Williams, M.A.

*Vice-Principal.*—Rev. L. Hodgson, M.A.

**Lecturers :**

Rev. D. C. Simpson, *Theology*.  
A. B. Emden.

**Tutors :**

G. R. Brewis, *Senior Tutor*.  
A. B. Emden, *Modern History*.

**KEBLE COLLEGE.**

*Warden.*—Water Loek, D.D.

*Sub-Warden.*—W. H. Jackson, M.A., D.Sc.

**Tutors :**

W. H. Jackson.  
H. B. Cooper.  
W. H. V. Reade.  
A. S. Owen.  
Rev. F. W. Matheson.  
Rev. K. E. Kirk.  
Rev. D. C. Simpson.

**Lecturers :**

F. G. Champernowne, *Jurisprudence*.  
B. L. Ottley.

### NON-COLLEGIATE STUDENTS.

*Censor*.—Richard W. M. Pope, D.D.

#### Tutors and Lecturers :

J. B. Baker.  
W. G. Kendrew.  
G. E. Underhill, *Literæ Humaniores*.  
C. C. J. Webb       "       "  
B. J. Kidd, *Theology*.  
J. F. Stenning, *Hebrew*.  
J. B. Baker, *Modern History*.  
F. Y. Eccles, *English Language and Literature*.

#### Tutors and Lecturers—Continued :

H. A. Smith, *Jurisprudence*.  
G. C. Cheshire       "  
G. S. F. C. Kaeckenbeeck, *Jurisprudence*.  
C. H. Thompson, *Mathematics*.  
C. E. Haselfoot, *Physics*.  
F. A. Dixey, *Physiology*.  
F. D. Chattaway, *Chemistry*.  
R. W. Jeffrey, *Modern History*.  
Rev. G. C. Richards, *Classics*.

### CAMPION HALL.

*Master*.—Rev. Charles Dominic Plater, M.A.

#### Libraries.—

Bodleian Library. *Librarian* : F. Madan, M.A.  
Radeliffe Library. *Librarian* : W. H. Jackson, M.A., D.Sc.  
Taylor Institution. *Librarian* : H. Krebs, Hon. M.A.  
Hope Collection of Books. *Keeper* : C. F. Bell, M.A.  
Indian Institute. *Librarian* : J. Morrison, Hon. M.A.

#### Museums, etc.—

Ashmolean Museum. *Keeper* : D. Hogarth, M.A., D.Litt. *Keeper of Art Galleries* : C. F. Bell, M.A.  
University Museum. *Secretary* : H. L. Bowman, M.A., D.Sc.  
Botanic Garden. *Curator of Herbarium* : G. C. Druce, Hon. M.A.  
University Observatory. *Director* : H. H. Turner, M.A., D.Sc.

### AFFILIATED INSTITUTIONS.

St. David's College, Lampeter.  
University College, Nottingham.  
University College, Reading.  
Hartley University College, Southampton.  
Exeter Diocesan Training College.  
Royal Albert Memorial University College, Exeter.  
The University of the Cape of Good Hope.  
"       "       Sydney.  
"       "       Calcutta.  
"       "       the Punjab.  
"       "       Bombay.  
"       "       Adelaide.  
"       "       Madras.  
"       "       Melbourne.  
"       "       New Zealand.  
"       "       Allahabad.  
"       "       Toronto.  
McGill University, Montreal.  
The University of Tasmania.  
"       "       New Brunswick.  
"       "       Malta.  
"       "       King's College, Windsor, Nova Scotia.

Dalhousie University, Halifax, Nova Scotia.  
Mt. Allison College, Sackville, New Brunswick.  
Acadia University, Wolfville, Nova Scotia.  
The University of Manitoba, Winnipeg.  
The University of Queen's College, Kingston, Ontario.  
Laval University, Quebec.  
McMaster University, Toronto.  
The University of St. Joseph's College, St. Joseph, New Brunswick.  
The University of Bishop's College, Lennoxville, Canada.  
The University of Ottawa.  
"       "       Saskatchewan.  
"       "       Queensland.  
"       "       Alberta.  
The University of St. Francis Xavier's College, Nova Scotia.  
The University of Western Australia.

#### Recognized Societies.—

Lady Margaret Hall (1878). *Principal* : Miss H. Jex-Blake.  
Somerville College (1879). *Principal* : Miss E. Penrose, M.A.  
St. Hugh's College (1886). *Principal* : Miss E. F. Jourdain.  
St. Hilda's Hall (1893). *Principal* : Miss C. M. E. Burrows.  
Society of Oxford Home Students. *Principal* : Mrs. A. H. Johnson.

**MANCHESTER COLLEGE, Oxford. (1786.)**

Manchester College is non-sectarian, and no profession or particular doctrine is required either from teachers or students. Theology is studied as a science, and complete liberty of thought is regarded as one of the fundamental principles of the College.

*Terms* : As Oxford University.

**OFFICIAL.**

*Principal*.—L. P. Jacks, M.A., D.D., LL.D.

**PROFESSORS.**

Rev. D. C. Simpson, *Old Testament*.

Rev. H. Gow, *New Testament*.

B. W. Bacon     "     "

Lachlan Macrae, *History of Doctrine*.

F. Watson, *Philosophy of Education*.

**Library**.—Devoted mainly to Philosophy and Theology. *Librarian* : Lachlan Macrae.

**MANSFIELD COLLEGE, Oxford. (1886.)**

A Theological College, under Congregational control, open to theological students of all churches. The normal course is three years. Only graduates of recognized Universities are admitted.

*Terms* : As Oxford University.

*Students* : 35.

**OFFICIALS.**

*Principal*.—Rev. W. B. Selbie, D.D.

*Bursar*.—N. H. Smith, M.A.

*Chaplain*.—Rev. N. Micklem.

**PROFESSORS.**

Rev. W. B. Selbie, *Theology*.

Rev. J. B. Bartlett, *Church History*.

Rev. G. B. Gray, *Hebrew and Old Testament*.

Rev. C. H. Dodd, *New Testament and Exegesis*.

**PACIFIC, COLLEGE OF THE. See SAN JOSÉ.**

**PASADENA (California).**

**MOUNT WILSON OBSERVATORY** of the Carnegie Institution of Washington.

*Address*: Pasadena, California.

**RESEARCH STAFF.**

*Director*.—George Ellery Hale.

*Assistant Director*.—Walter S. Adams.

*Secretary*.—Alfred H. Joy.

*Solar Physics* : George E. Hale, Charles E. St. John, Frederick H. Seares, Ferdinand Ellerman, Seth B. Nicholson, Adriaan van Maanen, Frederick S. Brackets.

*Stellar Spectroscopy* : Walter S. Adams, Alfred H. Joy, John C. Duncan, Gustaf Strömberg, Paul W. Merrill, R. F. Sanford.

*Stellar Photometry* : Frederick H. Seares, Harlow Shapley.

*Nebulae and Star Clusters* : Harlow Shapley, Francis G. Pease, John C. Duncan, Adriaan van Maanen, Edwin P. Hubble.

*Trigonometrical Parallaxes* : Adriaan van Maanen.

*Physical Laboratory* : Arthur S. King, Superintendent; J. A. Anderson, Harold D. Babcock, Charles E. St. John, Paul W. Merrill.

*Research Associates* : Professor J. C. Kapteyn of the University of Groningen; Professor A. A. Michelson of the University of Chicago.

*Computing Division* : Frederick H. Seares, Superintendent; Louise Ware, Cora G. Burwell, Bertha M. Shumway, Coral Wolfe, Myrtle L. Richmond, Addie L. Miller, Mary C. Joyner, Ada M. Brayton, G. Mary Ritchie, Lois M. Keener, Dorothy Hubbard.

6 Volunteer and Part Time Assistants, 4 Assistant Observers.



**PATIALA.****MOHINDRA COLLEGE**, Patiala. (1875.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 335.**OFFICIAL.***Principal*.—Man Mohan, M.A.**PROFESSORS.**B. Ram, *Mathematics*.K. K. Mukerjee, *Philosophy*.A. K. Sharma, *Philosophy*.A. T. Ramaniya Acharya, *English*.Kishori Lal, *History*.D. Dass, *Mathematics*.M. R. Kohli, *Economics*.

3 Lecturers for Oriental Languages.

**Post-Graduate Courses**.—In Mathematics.**Libraries**.—The College Library contains about 4,000 books. *Librarian* : A. K. Sherma.**PATNA (India).****BEHAR NATIONAL COLLEGE**, Patna, India. (1889.)*Terms* : One a year.*Students* : 840.**OFFICIAL.***Principal*.—D. N. Sen, M.A., I.E.S.**PROFESSORS.**G. P. Hazari, *Philosophy*.L. K. Ghosh, *Mathematics*.M. Haque, *English*.

C. Mittra, „

H. C. R. Chaudhary, *History*.B. K. Chaudhary, *Chemistry*.D. K. Bhattacharyya, *Physics*.J. Chatterjee, *Physics*.S. G. Taqi, *Persian and Arabic*.A. Thakur, *Sanskrit*.

16 Lecturers, 5 Assistants.

**PENNSYLVANIA STATE COLLEGE**. See **STATE COLLEGE**.**PERADENIYA ROYAL BOTANIC GARDENS**. No particulars received.**PERAK MUSEUM**. See **TAIPING**.**PERTH (Western Australia).****UNIVERSITY OF WESTERN AUSTRALIA**, Perth, W. Australia. (1911.)*Terms* : Three per year.*Students* : 406.*Budget* (1920):

Receipts .. .. . £17,245.

Expenditure .. .. . £18,083.

**OFFICIALS.***Visitor*.—The Governor of the State of W. Australia, His Excellency the Rt. Hon.

Sir W. G. Ellison-Macartney, P.C., K.C.M.G.

*Chancellor*.—His Grace the Most Rev. C. O. L. Riley, M.A., D.D., V.D.*Pro-Chancellor*.—C. Andrews, M.A.*Warden of Convocation*.—J. S. Battye, B.A., LL.B.*Vice-Chancellor*.—J. W. Paterson, B.Sc., Ph.D.**Degrees conferred**.—B.A., M.A., B.Sc., D.Sc., B.E., M.E., LL.B., LL.D., Mus.Bac., Mus.Doc., M.B., M.D., B.S.**Hoods**.—Arts, royal blue; Science, emerald green; Engineering, gold; Law, royal purple; Music, peacock blue; Medicine, ruby red; Surgery, ruby red.

# PROFESSORS.

## Professors :

W. J. Dakin, *Biology*.  
 W. L. F. Murdoch, *English*.  
 J. W. Paterson, *Agriculture*.  
 A. D. Ross, *Mathematics and Physics*.  
 E. O. G. Shann, *History and Economics*.  
 H. E. Whitfeld, *Mining and Engineering*.  
 N. T. M. Wilsmore, *Chemistry*.  
 W. G. Woolnough, *Geology*.

## Lecturers :

G. Wood, *Latin and Greek*.  
 M. Aourousseau, *Geology*.  
 A. Cayzer, *Biology*.  
 R. C. Gray, *Mathematics and Physics*.  
 E. J. Wilson, *French and German*.  
 G. Tattersall, *Chemistry*.

## Lecturers—Continued :

H. W. Sanders, *Mathematics and Physics*.  
 A. Tomlinson, *Engineering*.

## Associate Lecturers :

P. H. Fraenkel, *Electrical Engineering*.  
 W. J. Rooney, *Education*.  
 L. D'Ery (Miss), *French*.  
 G. M. Nunn, *Surveying*.  
 E. A. Le Souef, *Veterinary Science*.  
 Rev. G. N. Dods, *Logic and Ancient Philosophy*.  
 Rev. F. E. Oxer, *Psychology*.  
 R. Bleazby, *Railway Engineering*.  
 H. Beasley, *Architecture*.  
 W. McLagan, *Mechanical Drawing*.

**Post-Graduate Courses.**—Leading to M.A., D.Litt., M.Sc., D.Sc., M.E.

*Librarian :* A. Cayzer, B.Sc.

# AFFILIATED INSTITUTIONS.

Perth Technical School.

W. Australia School of Mines, Kalgoorlie.

# PESHAWAR (Punjab).

**EDWARDES COLLEGE**, Peshawar, Punjab. (1855.)

Affiliated to the University of the Punjab, Lahore.

*Students :* 60.

## OFFICIALS.

*Principal.*—Canon J. A. Wood, M.A.

*Officiating Principal.*—Rev. A. C. Clarke, M.A.

## PROFESSORS.

J. A. Wood, *English*.  
 A. C. Clarke  
 H. M. Husain  
 T. Bomford, *History*.  
 Jai Dayal, *Mathematics*.  
 Ghulam Husain, *History*.

Ahmal Husain, *Philosophy*.  
 M. A. Aziz, *Arabic and Persian*.  
 M. A. M. Khan  
 Pt. N. Lal, *Sanskrit*.  
 G. Thomas, *English History*.

# PHILADELPHIA (Pennsylvania).

**UNIVERSITY OF PENNSYLVANIA.** No particulars received.

**THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY**, Philadelphia, Pa. (1808.)

Devoted to researches in Anatomy, with special reference to Neurology, Genetics and Bio-Chemistry.

*Terms :* Open every day in the year.

*Students :* No undergraduates admitted.

## OFFICIAL.

*Director.*—Milton J. Greenman.

## PROFESSORS.

### Professor :

H. H. Donaldson, *Neurology*.

### Assistant Professors :

H. D. King, *Embryology*.  
 S. Hatai, *Neurology*.

1 Instructor, 3 Fellows, and 1 Research Assistant.

*Librarian :* C. N. Perine.

*In charge of publications* : C. B. Vaux.

Publishes the following periodicals:

Journal of Morphology.

The Journal of Comparative Neurology.

The American Journal of Anatomy.

The Anatomical Record.

The Journal of Experimental Zoology.

The American Anatomical Memoirs.

# PHILADELPHIA COLLEGE OF PHARMACY, 145 North 10th Street, Philadelphia, Pa. (1821.)

The Philadelphia College of Pharmacy is the oldest institution of its kind in the United States.

It is one of the few independent Colleges of Pharmacy in the United States. Many other Schools of Pharmacy are connected with State Universities.

It is a Co-educational School, a large number of women are numbered among its graduates.

*Terms* : Two per year.

*Students* : 500.

## OFFICIALS.

*President*.—H. B. French.

*First Vice-President*.—R. V. Mattison.

*Second Vice-President*.—J. L. Lemberger.

*Corresponding Secretary*.—A. W. Miller.

*Recording Secretary*.—C. A. Weidmann.

**Degrees conferred**.—Ph.G., B.Sc., Phar.B., Phar.D., P.C.

## PROFESSORS.

### Professors :

C. H. La Wall (Dean), *Theory and Practice of Pharmacy*.

E. F. Cook, *Operative Pharmacy*.

F. X. Moerk, *Analytical Chemistry*.

F. P. Stroup, *General Chemistry*.

J. W. Sturmer, *Pharmaceutical Chemistry*.

### Professors—Continued.

H. W. Youngken, *Botany and Pharmacology*.

C. B. Lowe, *Materia Medica*.

### Acting Professor :

L. Gershenfeld, *Bacteriology and Hygiene*.

8 Instructors, 3 Lecturers, 2 Assistants.

**Post-Graduate Courses**.—Leading to B.Sc., Phar.B., P.C., and Phar.D.

**Library**.—About 15,000 volumes. *Librarian* : Miss Bonsall.

**Publication**.—American Journal of Pharmacy.

## THE DROPSIE COLLEGE FOR HEBREW AND COGNATE LEARNING,

S.E. Cor. Broad and York Streets, Philadelphia, Pa. (1908.)

*Terms* : Four per year. *Students* : Graduates and Specials, 38.

*Budget* (May, 1918, to May, 1919): \$40,140.00.

## OFFICIALS.

*President of the College*.—Dr. C. Adler.

*Vice-President*.—Hon. M. Sulzberger.

*Secretary of the Board of Governors*.—E. Lederer.

*Secretary of the Faculty*.—Prof. M. L. Margolis.

*Treasurer of the College*.—Horace Stern.

**Degree conferred**.—Ph.D.; Colour, blue and gold.

2 Professors and 5 Instructors.

**Library**.—19,492 volumes. *Assistant Librarian* : Dr. J. Reider.

**Publications**.—Jewish Quarterly Review.

## AMERICAN PHILOSOPHICAL SOCIETY, Independence Square, Philadelphia, Pa. (1727.)

The oldest learned society in America. Founded by Benjamin Franklin. Membership is by election. Fifteen American members elected annually.

OFFICERS.

*President.*—W. B. Scott, D.Sc., LL.D., of Princeton, New Jersey.

*Vice-Presidents.*—

G. E. Hale, Sc.D., Ph.D., LL.D., of Pasadena, California.

A. A. Noyes, Ph.D., Sc.D., LL.D., of Cambridge, Massachusetts.

H. L. Carson, M.A., LL.D., of Philadelphia.

*Secretaries.*—

I. Minis Hays, A.M., M.D., of Philadelphia.

A. W. Goodspeed, A.B., Ph.D., of Philadelphia.

H. F. Keller, Nat.Ph.D., of Philadelphia.

B. M. Davis, A.M., Ph.D., of Philadelphia.

*Treasurer.*—H. La Barre Jayne, A.B., of Philadelphia.

*Meetings.*—Ordinary meetings are held monthly from October to May (inclusive). The Annual General Meeting is held in April.

*Library.*—70,000 volumes relating to the sciences.

*Publications.*—Transactions, 4to., Volumes I. to VI. New Series, Volumes I. to XXII. Proceedings, 8vo., Volumes I. to LVIII.

**ACADEMY OF NATURAL SCIENCES**, Logan Square, Philadelphia, Pa. (1812.)

The oldest Scientific Society in America.

*Recording Secretary and Librarian.*—E. J. Nolan.

*Corresponding Secretary.*—J. P. Moore.

*Publications.*—Journal, Proceedings.

**THE ZOOLOGICAL SOCIETY OF PHILADELPHIA**, Fairmount Park, Philadelphia, Pa. (1812.)

Members, 1,400.

Income .. \$118,532.37      Expenditure .. \$118,663.94

OFFICIALS.

*President.*—C. B. Penrose, M.D.

*Vice-President.*—C. C. Febiger.

*Secretary.*—W. B. Cadwalder, M.D.

*Treasurer.*—C. S. W. Packard.

*Superintendent of the Garden.*—C. Emerson Brown.

*Pathologist.*—H. Fox, M.D., and 2 Assistants.

Publishes an Annual Report.

**THE FRANKLIN INSTITUTE OF THE STATE OF PENNSYLVANIA**,

15, South Seventh Street, Philadelphia, Pa.

The Franklin Institute of the State of Pennsylvania for the Promotion of the Mechanic Arts was organized in the year 1824, to meet a demand in America for an institution similar to that founded by Count Rumford in London in 1799. The founders intended it not only as an appropriate memorial to the name of Franklin, but as a means of continuing for all time a work which throughout his long life he perhaps regarded as his best, namely, the discovery of physical and natural laws and their application to increase the well-being and comfort of mankind. Membership, 1,500.

*President.*—W. Clark.

*Vice-Presidents.*—H. Howson, Coleman Sellers, jr.

*Secretary.*—E. B. Owens.

Weekly lectures on scientific and technical subjects are given throughout the winter season; the Journal of the Franklin Institute has been published monthly since 1826; monthly meetings are held at which recent discoveries in physical science and important engineering achievements are discussed, and major inventions described. The membership is divided into the following sections, each group devoting its attention to the branch of technology for which it is organized: Chemistry, Mining, Metallurgy, Astronomy, Physics, and Engineering.

*Library.*—73,511 volumes, 15,143 pamphlets, 2,289 maps and charts, and 1,336 photographs. Complete sets of over 600 of the leading scientific and technical publications of the world. *Librarian*: A. Rigling.

**THE PHILADELPHIA MUSEUMS**, Commercial Museum, 34th Street below Spruce,  
Philadelphia, Pa. (1894.)  
With Foreign Trade Bureau.

*Budget* (1918):

Total Income .. .. .	\$175,168.15.
Total Expenditure .. .. .	171,685.74.

**OFFICIALS.***Director.*—W. P. Wilson, Sc.D.*Secretary.*—W. H. Schoff, A.M.*Curator.*—C. R. Toothaker.*Chief of Foreign Trade Bureau.*—D. Bartlett.**Library.**—40,727 books and 70,149 pamphlets. *Librarian* : J. J. Macfarlane, A.M.**OFFICERS OF BOARD OF TRUSTEES.***President.*—S. L. Wright.*Vice-President.*—H. B. French.*Treasurer.*—D. Baugh.

The Commercial Museum comprises collections illustrating the production and commerce of all nations. A Bureau of Information collates all available data regarding the subject of foreign trade and distributes upon application reports tending to the extension of American trade abroad.

A free commercial technical library is also maintained by the Board, bearing particularly on the subjects of international trade, production, transportation, banking, economics, and municipal affairs. It also contains trade directories of the leading cities and countries of the world, including all cities in the United States with a population of 100,000 or over, and in their special lines possessing more reference than any other known collection.

There are also extensive exhibits, illustrating the ethnology and productions of Mexico, the Central and South American Republics, West Indies, East and West Africa, Madagascar, India, and Ceylon, the Straits Settlements, Indo-China, Siam, Siberia and Oceania.

**PIETERMARITZBURG (South Africa).****NATAL UNIVERSITY COLLEGE**, Pietermaritzburg, Natal. (1910.)

A Constituent College of the University of South Africa, along with the colleges: Rhodes, Grahamstown; Grey, Bloemfontein; Huguenot, Wellington; Transvaal, Pretoria; and School of Mines and Technology, Johannesburg.

*Terms* : Two per year.*Students* : 120.

*Budget* : Grants from Government of the Union of South Africa and local revenue (mainly fees.)

**Degrees and Hoods.**—As University of South Africa.**PROFESSORS.**A. Patrie, *Classics*.O. Waterhouse, *English and Philosophy*.G. Besselaar, *Modern Languages*.W. N. Roseveare, *Mathematics*.R. B. Denison, *Chemistry*.J. W. Bews, *Botany and Geology*.E. Warren, *Zoology*.

5 Lecturers.

**Post-Graduate Courses.**—M.A. and M.Sc., for which degrees a thesis may be presented as part of the examination.

**Library.**—College Library. *Librarian* : A. F. Hattersley, M.A.**PITTSBURGH (Pennsylvania).****UNIVERSITY OF PITTSBURGH**, Pittsburgh, Pa. (1787.)*Terms* : Two per year.*Students* (1919-1920): 4,756.

Total Expenditure (1917-1918): \$1,045,988.76.



OFFICERS.

*President, Board of Trustees.*—G. H. Clapp.  
*Chancellor.*—S. B. McCormick.  
*Secretary.*—S. B. Linhart.  
*Registrar.*—J. G. Quick.  
*Librarian.*—B. A. Swope.

PROFESSORS.

THE COLLEGE.

Professors :

J. C. Fettermann (Dean), *Biology*.  
 F. Schlesinger, *Astronomy*.  
 O. E. Jennings, *Botany*.  
 L. R. Gibbs, *English Language and Literature*.  
 S. B. Linhart, *Ethics and History of Religion*.  
 R. H. Johnson, *Geology*.  
 J. F. L. Raschen, *German Language and Literature*.  
 H. S. Scribner, *Greek Language and Literature*.  
 H. J. Webster, *History*. [ture.  
 E. T. Sage, *Latin Language and Literature*.  
 J. M. Mecklin, *Philosophy*.  
 A. E. Ortmann, *Physical Geography*.  
 C. N. Wenrich, *Physics*.  
 J. H. White, *Psychology*.  
 F. H. Lane, *Public Speaking*.  
 W. H. Shelton, *Romance Languages and Literature*.  
 L. E. Griffin, *Zoology*.  
 W. P. Webber, *Mathematics*.  
 F. A. Foraker ,,

Assistant Professors :

A. B. Wallgren, *Biology*.  
 W. H. Emig, *Botany*.  
 J. K. Miller, *English*.  
 J. Valente ,,  
 A. P. James, *History*.  
 G. G. Becknell, *Physics*.  
 W. B. Pietenpol ,,  
 J. C. Coulson ,,  
 A. M. Snyder, *Psychology*.  
 R. H. Johnson, *Romance Languages*.  
 2 Lecturers, 27 Instructors.

THE SCHOOL OF ECONOMICS.

Professors :

A. B. Wright (Acting Dean), *Political Science*.  
 C. P. Reitell, *Accounting*.  
 G. P. Eckels ,,  
 F. N. Thorpe, *Political Science and Constitutional Law*.  
 F. D. Tyson, *Sociology*.

Assistant Professors :

H. C. Kidd, *Economics*.  
 L. K. Manley, *Economics*.  
 M. Jones, *Finance*.  
 C. Arnold, *Journalism*.  
 3 Instructors.

THE SCHOOL OF EDUCATION.

Professors :

W. G. Chambers (Dean), *Education*.  
 M. Smith, *Childhood Education*.  
 J. H. Kelley, *Education*.  
 G. E. Jones ,,  
 S. B. Davis ,,  
 G. C. Basset, *Educational Psychology*.  
 W. H. Klar, *Fine and Industrial Arts*.  
 A. M. Jones, *Household Arts*.  
 W. Earhart, *Music*.  
 T. W. Bueckhalter, *Physical Education*.  
 T. J. Kirby, *Secondary Education*.  
 A. S. Hurrell, *Vocational Education*.  
 M. Shepard (Miss), *Physical Education*.

Assistant Professors :

A. M. Carmalt (Mrs.), *Elementary Education*.  
 M. E. Stover (Miss), *Household Arts*.  
 F. C. Clayter, *Industrial Arts*.  
 K. Foulke (Miss), *Secondary Education*.  
 3 Lecturers, 28 Instructors.

THE SCHOOL OF ENGINEERING.

Professors:

F. L. Bishop (Dean), *Physics*.  
 J. H. Smith, *Civil Engineering*.  
 L. H. Harris, *Electrical Engineering*.  
 H. E. Dyche ,,  
 R. T. Stewart, *Mechanical Engineering*.  
 L. E. Endsley, *Railway Mechanical Engineering*.  
 M. Knowles, *Sanitary Engineering*.  
 G. W. Case, ,,  
 J. S. Lambie, *Civil Engineering*.  
 L. W. McIntyre ,,  
 J. Weber, *Mechanical Engineering*.

Assistant Professors :

L. C. McCandliss, *Civil Engineering*.  
 G. I. Mitchell, *Electrical Engineering*.  
 W. W. Boyle, *Mechanical Engineering*.  
 5 Instructors.

SCHOOL OF MINES.

Professors :

H. B. Meller (Dean), *Mining*.  
 H. Leighton, *Economic Geology*.  
 R. H. Johnson, *Geology, Oil, and Gas Production*.  
 S. L. Goodale, *Metallurgy*.  
 R. E. Somers, *Oil and Gas Production*.  
 H. C. Ray, *Ore Dressing*.

Associate Professor :

R. M. Black, *Mining*.  
 1 Lecturer, 2 Instructors.

**THE SCHOOL OF CHEMISTRY.****Professors :**

- R. F. Bacon (Dean), *Chemistry*.  
A. Silverman, *Chemistry*.

**Assistant Professors :**

- L. Jenks, *Analytical Chemistry*.  
A. Lowy, *Organic Chemistry*.  
G. Stegeman, *Physical Chemistry*.  
5 Instructors.

**THE GRADUATE SCHOOL.**

Acting Dean.—R. F. Bacon.

**Professors :**

- R. Retzer, *Anatomy*.  
F. Schlesinger, *Astronomy*.  
J. C. Fettermann, *Biology*.  
O. E. Jennings, *Botany*.  
H. Leighton, *Economic Geology*.  
W. G. Chambers, *Education*.  
L. R. Gibbs, *English Language and Literature*.  
H. C. Kidd, *Finance and Economics*.  
R. H. Johnson, *Geology*.  
J. F. L. Raschen, *German Language and Literature*.  
H. S. Scribner, *Greek Language and Literature*.  
H. J. Webster, *History*.  
A. Silvermann, *Inorganic Chemistry*.  
E. T. Sage, *Latin Language and Literature*.  
S. L. Goodale, *Metallurgy*.  
H. B. Meller, *Mining*.  
H. C. Ray, *Ore Dressing*.  
E. H. Balz, *Organic Chemistry*.  
A. E. Ortman, *Paleontology and Geography*.  
O. Klotz, *Pathology and Bacteriology*.  
J. M. Mecklin, *Philosophy*.  
C. N. Wenrich, *Physics*. [macology.  
C. C. Guthrie, *Physiology and Phar-*  
F. N. Thorpe, *Political Science*.  
J. H. White, *Psychology*.  
W. O. Farnsworth, *Romance Languages and Literatures*.  
T. J. Kirby, *Secondary Education*.  
F. D. Tyson, *Sociology*.  
L. E. Griffin, *Zoology*. [tion.  
S. B. Davis, *Educational Administra-*

**Assistant Professors :**

- A. B. Wallgren, *Biology*.  
E. H. Emig, *Biology*.  
J. K. Miller, *English*.  
F. A. Foraker, *Mathematics*.  
W. P. Webber  
A. M. Snyder, *Psychology*.  
3 Instructors.

**THE SCHOOL OF MEDICINE.****Professors :**

- R. R. Huggins (Dean), *Gynecology*.  
D. Hooker, *Anatomy*.

**Professors—Continued :**

- W. L. Holman, *Bacteriology*.  
C. Jackson, *Laryngology and Rhinology*.  
J. D. Heard, *Medicine*.  
T. M. T. McKennan, *Neurology*.  
W. W. Blair, *Ophthalmology*.  
D. Silver, *Orthopedic Surgery*.  
E. W. Day, *Otology*.  
O. Klotz, *Pathology*.  
O. M. Edwards, *Pediatrics*.  
T. J. Elterich  
C. C. Guthrie, *Physiology and Pharmacology*.  
W. K. Walker, *Psychiatry*.  
G. C. Johnston, *Röntgenology*.  
J. J. Buchanan, *Surgery*.  
R. T. Miller, *Surgery*.  
C. C. Macklin, *Anatomy*.  
R. R. Huggins, *Gynecology*.  
E. J. Patterson, *Laryngology and Rhinology*.  
J. A. Lichty, *Medicine*.  
B. A. Cohoe  
J. I. Johnston  
T. Diller, *Neurology*.  
E. T. W. Way, *Otology*.  
E. E. Mayer, *Psychiatry*.  
G. L. Hays, *Surgery*.

**Assistant Professors :**

- H. N. Gould, *Anatomy*.  
E. A. Weiss, *Gynecology*.  
H. N. Gould, *Histology and Embryology*.  
J. H. McCready, *Laryngology and Rhinology*.  
I. J. Moyer, *Medicine*.  
H. G. Schleiter  
T. G. Simonton  
C. H. Henningher, *Neurology*.  
S. S. Smith, *Ophthalmology*.  
J. O. Wallace, *Orthopedic Surgery*.  
J. R. Simpson, *Otology*.  
W. W. G. MacLachlan, *Pathology*.  
H. T. Price, *Pediatrics*.  
A. Rohde, *Physiological Chemistry*.  
E. W. Meredith, *Surgery*.  
P. R. Sieber  
J. C. Burt  
W. O. Sherman  
3 Lecturers, 48 Instructors.

**THE SCHOOL OF LAW.****Professors :**

- Hon. J. D. Shafer (Dean), *Real Property and Legal History*.  
R. H. Hawkins, *Common Pleas Practice, Equity Pleading and Practice, Bankruptcy and Real Estates*.  
A. M. Thompson, *Constitutional Law and Corporations*.  
J. A. Crane, *Contracts, Agency, Conflict of Laws, Partnership and Insurance*.

**Professors—Continued :**

- R. A. Applegate, *Criminal Law*.  
 R. W. Martin, *Criminal Law and Procedure*.  
 E. W. Marshall, *Equity and Real Property*.  
 J. C. Gray, *Evidence and Torts*.  
 E. Englert, *History of Procedure, History of Property and Damages*.  
 Hon. J. R. Macfarlane, *Negotiable Instruments*.  
 Hon. J. J. Miller, *Orphan's Court Practice, Wills and Decedents' Estates, Legal Ethics*.  
 G. J. Thompson, *Public Utilities*.  
 J. G. Houston, *Real Property and Contracts, and Domestic Relations*.  
 J. G. Buchanan, *Restraint of Trade*.  
 J. T. Duff, *Torts and Bailments*.  
 E. Englert, *Common Law, Pleading*.  
 J. S. Christy, *Evidence*.  
 1 Instructor.

**THE SCHOOL OF DENTISTRY.**

**Professors :**

- H. E. Friesell (Dean), *Operative Dentistry*.  
 S. L. McCurdy, *Anatomy, Oral and General Surgery*.  
 J. S. Ashbrook, *Dental Anatomy, Dental Medicine, and Comparative Anatomy*.  
 W. L. Fickes, *Dental Ceramics, Dental History, and Oral Hygiene*.  
 O. L. Hertig, *Dental Pathology, and Therapeutics and Operative Clinician*.  
 C. R. Jones, *General Pathology, Materia Medica, and Therapeutics*.  
 F. C. Friesell, *Histology, and Bacteriology and Orthology*.  
 J. F. Biddle, *Orthodontia and Radiography*.  
 O. M. Ott, *Physics, and Technical Drawing*.  
 A. F. Judd, *Physics, Chemistry, and Metallurgy*.  
 C. O. Booth, *Prosthetics and Economics*.

**Assistant Professors :**

- W. H. Wright, *Anatomy and Prosthetics*.  
 L. W. Ohl, *Anesthesia and Extracting*.  
 W. A. Dunn, *Chemistry and Metallurgy*.  
 A. Lewis, *Crown and Bridge*.  
 2 Lecturers, 25 Demonstrators.

**THE WESTERN THEOLOGICAL SEMINARY**, North Side, Pittsburgh, Pa. (1825.)  
 The Western Theological Seminary is a theological college of the Presbyterian Church in the U.S.A.

*Budget : Expenditure, \$61,327.15.*

*Students : 48,*

*President.*—Rev. J. A. Kelso, Ph.D., D.D.  
 4 187. 116 241

**Degree conferred.**—B.D.

**THE SCHOOL OF PHARMACY.**

**Professors :**

- J. A. Koch (Dean), *Physics and Chemistry*.  
 L. Saalbach, *Botany*.  
 A. F. Judd, *Botany and Materia Medica*.  
 F. T. Aschman, *Chemistry*.  
 L. K. Darbaker, *Pharmacognosy and Bacteriology*.  
 J. H. Beal (Emeritus), *Pharmacy*.  
 F. A. Rhodes, *Physiology*.

**Associate Professor :**

- F. J. Blumenschein, *Pharmacy*.  
 2 Instructors.

**THE SCHOOL OF ASTRONOMY.**

Allegheny Observatory. (1859.)

*Director.*—F. Schlesinger.

*Assistant Director.*—F. C. Jordan,

*Assistants.*—F. Henroteau, R. Trumpler.

**DEPARTMENT OF UNIVERSITY EXTENSION.**

**Director :**

J. H. Kelley.

**Heads of Departments :**

- H. E. Cooper, Extra Mural Instruction Department.  
 N. McLeod, Public Service Department.  
 L. Glaser, Secretary, Package Library Bureau.  
 P. Syling, Secretary, Teachers' Appointment Bureau.  
 Thyrza W. Amos, Dean of Women.

**DEPARTMENT OF HEALTH.**

*Director.*—E. M. Frost.

**DEPARTMENT OF PHYSICAL EDUCATION AND ATHLETICS.**

**Professors :**

- C. S. Miller (Director), *Physical Education*.  
 H. H. Provin, *Physical Education*.

**Associate Professor :**

- M. Shephard, *Physical Education*.  
 2 Instructors.

**DEPARTMENT OF MILITARY SCIENCE AND TACTICS.**

**Professor :**

R. M. Mitchell (Director).

**Assistant Professors :**

- L. W. Lyon.  
 R. A. Parsons.  
 D. B. Falk.

**FACULTY.**
**Professors :**

Rev. J. A. Kelso, *Hebrew and Old Testament Literature.*  
 Rev. R. Christie, *Apologetics.*  
 Rev. D. S. Schaff, *Ecclesiastical History and History of Doctrine.*  
 Rev. D. R. Breed, *Sacred Rhetoric and Elocution.*

**Post-Graduate Courses in Theology.**

*Librarian :* Rev. D. E. Culley, Ph.D.

**Professors—Continued :**

Rev. W. R. Farmer, *New Testament Literature and Exegesis.*  
 Rev. J. H. Snowden, *Systematic Theology.*

**Assistant Professor :**

Rev. D. E. Culley, *Hebrew.*  
 3 Instructors.

**THE NATIONAL SOCIETY FOR THE STUDY OF EDUCATION, Pittsburgh, Pa. (1900.)**

*Secretary Treasurer.*—Guy M. Whipple, Carnegie Institute of Technology, Pittsburgh Pa.

*Publication.*—Year-book.

**PLYMOUTH.**
**MARINE BIOLOGICAL ASSOCIATION, Plymouth. (1888.)**

*President.*—Sir E. Ray Lankester, K.C.B., F.R.S.

*Director.*—E. J. Allen, D.Sc., F.R.S.

**NATURALISTS.**

L. R. Crawshaw.  
 E. W. Nelson.  
 Miss M. V. Lebour.

J. H. Orton.  
 R. S. Clark.

**POUGHKEEPSIE (New York).**
**VASSAR COLLEGE (for Women), Poughkeepsie, New York. (1861.)**

*Terms :* Two per year.

*Students :* 1,107.

*Budget (1918-1919) :* \$548,699. *Total assets, including buildings,* \$6,000,000.

**OFFICIALS.**

*President.*—H. Noble MacCracken, Ph.D., LL.D.

*Dean.*—Miss Ella McCaleb, A.B.

*Head Warden.*—Miss Jean C. Palmer, A.M.

*Degrees conferred.*—A.B., A.M.

**PROFESSORS.**
**Professors :**

O. S. Tonks, *Art.*  
 C. E. Furness, *Astronomy.*  
 W. B. Hill, *Bible.*  
 C. W. Moulton, *Chemistry.*  
 H. E. Mills, *Economics.*  
 L. J. Wylie, *English.*  
 G. Buck, *English.*  
 (Vacant), *Geology.*  
 M. P. Whitney, *German.*  
 G. H. Macurdy, *Greek.*  
 L. M. Salmon, *History.*  
 J. F. Baldwin, "  
 E. Ellery, "  
 J. L. Moore, *Latin.*  
 H. S. White, *Mathematics.*  
 G. C. Gow, *Music.*  
 W. Riley, *Philosophy.*  
 D. Drake, "

**Professors—Continued :**

(Vacant), *Physics.*  
 E. H. Thelberg, *Physiology.*  
 E. D. Fite, *Political Science.*  
 M. F. Washburn, *Psychology.*  
 A. L. Treadwell, *Zoology.*

**Associate Professors :**

Prof. Fiske, *English.*  
 „ Judson „  
 „ Peebles „  
 „ Wick, *Physics.*  
 „ Strube, *German.*  
 „ Textor, *History.*  
 „ Thallon „  
 „ Thompson, *History.*  
 „ Fahnestock, *Spanish and Italian.*  
 „ Palmer, *Latin.*  
 „ Haight „  
 „ Saunders „

**Associate Professors—Continued :**

- Prof. Cowley, *Mathematics*.  
 „ Carter, *Physics*.  
 „ Beckwith, *Zoology*.  
 „ Cummings, *Mathematics*.  
 „ Geer, *Music*.  
 „ Dickinson, *Music*.  
 „ Macleod, *Chemistry*.

**Assistant Professors :**

- Prof. Roberts, *Botany*.  
 „ Newcomer, *Economics*.  
 „ Johnson, *English*.  
 „ Yost, *English*.  
 „ Smith „

**Assistant Professors—Continued :**

- Prof. Cochran, *English Speech*.  
 „ White, *French*.  
 „ Conrow „  
 „ Struck, *German*.  
 „ Roselli, *Italian*.  
 „ Landon, *Chemistry*.  
 „ Schumb „  
 „ Kilpatrick „  
 „ Barbour, *History*.  
 „ Wells, *Mathematics*.  
 „ Chittenden, *Music*.  
 57 Lecturers.

**Post-Graduate Courses.**—Arranged by Departments as called for.

**Museums.**—Museums of Art and Natural History.

**Library.**—Thompson Memorial Library. Capacity, 200,000 volumes, 1,300 readers.  
*Head Librarian:* Miss A. L. Reed.

**PRINCE OF WALES COLLEGE.** See JAMMA.

**PRETORIA (South Africa).**

**TRANSVAAL UNIVERSITY COLLEGE,** Pretoria. (1908.)

A Constituent College of the University of South Africa.

*Terms :* Two per year.

*Students :* 286.

**OFFICIALS.**

*Rector.*—A. C. Paterson, M.A.

*Registrar.*—A. A. Roberts, B.A., LL.B.

**Degrees conferred.**—Teachers' First Class Certificate, LL.B., B.D., B.A., M.A., M.Sc., B.Sc., D.Sc., B.Sc. (Agriculture), M.Sc. (Agriculture), D.Sc. (Agriculture), B.Com.

**PROFESSORS.**

**ARTS.**

**Professors :**

- A. C. Paterson, *Latin and Biblical Hebrew*.  
 H. Reinink, *Greek*.  
 J. P. R. Wallis, *English*.  
 T. H. le Roux, *Dutch*.  
 L. Fouche, *History*.  
 W. A. Macfadyen, *Philosophy*.  
 A. E. du Toit, *Mathematics*.

**SCIENCE.**

**Professors :**

- P. G. Gundry, *Physics*.  
 D. F. du T. Malherbe, *Chemistry*.  
 H. A. Wager, *Botany*.  
 A. M. Bosman, *Agriculture*.  
 J. M. Hector, *Agricultural Botany*.  
 E. Anderson, *Agricultural Chemistry*.  
 P. R. Viljoen, *Veterinary Science*.  
 19 Lecturers.

**Library.**—College Library. *Librarian :* (Vacant.)

**PRINCETON (New Jersey).**

**PRINCETON UNIVERSITY,** N.J., U.S.A. (1746.)

*Terms :* Two per year.

*Students :* 1,800.

*Budget :* \$830,000.

**OFFICIALS.**

*President.*—J. G. Hibben.

*Dean of Science Departments.*—H. B. Fine.

*Dean.*—W. F. Magie.

*Dean of the Graduate School.*—Andrew F. West.

*Dean of the College.*—H. McClenahan.

*Treasurer.*—Henry G. Duffield.

*Secretary.*—(Acting) V. Lansing Collins.

*Secretary of Business Administration.*—G. C. Wintringer.

*Registrar.*—F. L. Hutson.

*Clerk of the Board of Trustees.*—W. Farrand.



## Degrees conferred.

## Degrees.

A.B. -	-	Black Hood, lined with orange with black chevron, white trimmed.
B.S. -	-	Black Hood, lined with orange with black chevron, yellow trimmed.
A.M. -	-	Black Hood, lined with orange with black chevron, white trimmed.
Ph.D. -	-	Black Hood, lined with orange with black chevron, blue trimmed.
M.S. -	-	Black Hood, lined with orange with black chevron, yellow trimmed.

## Hoods.

## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

- J. G. Hibben, *Philosophy*.  
 F. L. Patton, *Ethics*.  
 T. W. Hunt, *English*.  
 W. Libbey, *Physical Geography*.  
 A. Marquand, *Art and Archeology*.  
 F. West, *Latin*.  
 H. C. O. Huss, *Modern Languages*.  
 J. H. Westcott, *Latin*.  
 G. McLean Harper, *Belles Lettres and English Language and Literature*.  
 P. Van Dyke, *History*.  
 H. Van Dyke, *English Literature*.  
 T. M. Parrott, *English*.  
 E. Yard Robbins, *Greek Language and Literature*.  
 W. U. Vreeland, *Romance Languages*.  
 W. K. Prentice, *Greek*.  
 H. C. Butler, *Art and Archeology*.  
 D. R. Stuart, *Classics*.  
 C. Gauss, *Modern Languages*.  
 E. Capps, *Classics*.  
 F. F. Abbott, *Latin Language and Literature*.  
 H. J. Ford, *Politics*.  
 R. B. C. Johnson, *Philosophy*.  
 R. McNutt McElroy, *American History*.  
 F. J. Mather, *Art and Archeology*.  
 E. S. Corwin, *Jurisprudence*.  
 H. F. Covington, *Public Speaking*.  
 F. A. Fetter, *Political Economy*.  
 D. Magie, *Classics*.  
 J. D. Spaeth, *English*.  
 D. L. Buffum, *Romanic Languages*.  
 V. L. Collins, *French Language and Literature*.  
 J. P. Hoskins, *Germanic Languages and Literature*.  
 M. F. Blau, *Germanic Languages and Literature*.  
 G. M. Priest, *Germanic Languages and Literature*.  
 E. W. Kemmerer, *Economics and Finance*.  
 G. B. McClellan, *Economic History*.  
 A. A. Bowman, *Logic*.  
 C. G. Osgood, *English*.  
 E. G. Spaulding, *Philosophy*.  
 A. Naves, *English*.  
 D. C. Munro, *Medieval History*.  
 P. M. Brown, *International Law*.  
 W. Fite, *Ethics*.

## Professors—Continued :

- G. H. Gerould, *English*.  
 R. K. Root, *English*.  
 C. C. Marden, *Spanish*.  
 E. C. Armstrong, *French Language*.  
 W. S. Myers, *Politics*.  
 H. H. Bender, *Indo-Germanic Philology*.  
 C. R. Morey, *Art and Archeology*.  
 D. A. McCabe, *Economics*.  
 D. C. Stuart, *Dramatic Literature*.  
 F. H. Dixon, *Economics*.  
 R. W. Rogers, *Ancient Literature*.

## Associate Professors :

- H. R. Shipman, *History and Politics*.  
 M. W. Croll, *English*.  
 C. W. Kennedy, *English*.

## Assistant Professors :

- P. J. J. van den Ven, *Byzantine History and Literature*.  
 J. W. Basore, *Classics*.  
 F. L. Hutson, "  
 N. E. Griffin, *English*.  
 F. C. MacDonald, "  
 F. L. Critchlow, *Modern Languages*.  
 W. Koren, " "  
 H. W. Thayer, " "  
 G. T. Whitney, *Philosophy*.  
 G. W. Elderkin, *Art and Archeology*.  
 D. C. Stuart, *Modern Languages*.  
 R. Heermance, *English*.  
 A. C. Johnson, *Classics*.  
 H. S. Murch, *English*.  
 T. J. Wertenbaker, *History and Politics*.  
 C. R. Hall, *History and Politics*.  
 W. P. Hall, " "  
 C. Robinson, " "  
 R. M. Seoon, *Classics*.  
 H. B. Van Hoesen, *Curator of Manuscripts*.  
 H. B. Dewing, *Classics*.  
 H. C. Longwell, *Philosophy*.  
 A. E. Morse, *History*.  
 S. E. Howard, *Economics*.  
 L. Cons, *Modern Languages*.  
 E. B. Smith, *Art and Archeology*.  
 S. W. Morgan, *Art and Archeology*.  
 J. H. Williams, *Economics*.  
 S. W. Weber, *Classics*.  
 G. R. Davies, *Economics*.  
 W. P. Cresson, *History and Politics*.  
 P. A. Chapman, *Modern Languages*.  
 S. Shellabarger, *English*.

# FACULTY OF SCIENCE.

## Professors :

G. Macloskie, *Biology*.  
 C. McMillan, *Civil Engineering*.  
 W. B. Scott, *Geology*.  
 F. N. Willson, *Graphics*.  
 H. B. Fine, *Mathematics*.  
 W. F. Magie, *Physics*.  
 L. W. McCay, *Chemistry*.  
 H. D. Thompson, *Mathematics*.  
 H. S. S. Smith, *Civil Engineering*.  
 W. B. Harris, *Geodesy*.  
 E. H. Loomis, *Physics*.  
 W. M. Rankin, *Biology*.  
 C. F. W. McClure, *Zoology*.  
 H. C. Warren, *Psychology*.  
 A. H. Phillips, *Mineralogy*.  
 F. Neher, *Organic Chemistry*.  
 C. H. Smyth, jr., *Geology*.  
 H. McClenahan, *Physics*.  
 A. Trowbridge, *Physics*.  
 E. G. Conklin, *Biology*.  
 M. MacLaren, *Electrical Engineering*.  
 E. P. Adams, *Physics*.  
 L. P. Eisenhart, *Mathematics*.  
 J. E. Raycroft, *Hygiene*.  
 G. A. Hulett, *Physical Chemistry*.  
 W. Foster, *Chemistry*.  
 O. Veblen, *Mathematics*.  
 U. Dahlgren, *Biology*.  
 W. Gillespie, *Mathematics*.  
 H. N. Russell, *Astronomy*.  
 P. L. Boutroux, *Mathematics*.  
 A. W. C. Menzies, *Chemistry*.

**Post-Graduate Courses.**—In Arts and Sciences, leading to the degrees of M.A., M.S., and Ph.D.

**Library.**—The University Library. *Librarian* : E. C. Richardson.

**PRINCETON THEOLOGICAL SEMINARY**, Princeton, U.S.A. (1812.)

*Term* : One term of 32 weeks, commencing in September.

*Students* : 158. *Budget* : \$164,000.

**Degree conferred.**—B.D.

## OFFICIALS.

*President.*—Rev. J. Ross Stevenson, D.D., LL.D.

*Registrar and Secretary of Faculty.*—Rev. Paul Martin.

## PROFESSORS.

## Professors :

J. Ross Stevenson, *History of Religion and Christian Missions*.  
 B. B. Warfield, *Didactic and Polemic Theology*.  
 J. D. Davis, *Oriental and Old Testament Literature*.  
 W. B. Greene, *Apologetics and Christian Ethics*.  
 G. Vos, *Biblical Theology*.  
 R. D. Wilson, *Semitic Philology and Old Testament Criticism*.

**Post-Graduate Courses.**—Extensive advanced courses in Theology for students who have completed the usual three years' course in Theology.

**Library.**—109,937 volumes, 36,732 pamphlets. *Librarian* : Rev. J. H. Dulles.

## Professors—Continued :

F. H. Constant, *Civil Engineering*.  
 G. H. Shull, *Botany and Genetics*.  
 J. E. McMahon, jr., *Military Science and Tactics*.  
 H. L. Cooke, *Physics*.  
 K. T. Compton,,  
 E. N. Harvey, *Physiology*.

## Associate Professor :

C. R. MacInnes, *Mathematics*.

## Assistant Professors :

M. S. Farr, *Geology*.  
 P. E. Robinson, *Physics*.  
 R. S. Dugan, *Astronomy*.  
 G. Van Ingen, *Geology*.  
 J. H. M. Wedderburn, *Mathematics*.  
 E. F. Northrup, *Physics*.  
 D. P. Smith, *Chemistry*.  
 J. S. Van Nest, *Chemistry*.  
 F. W. Luehring, *Physical Education*.  
 H. C. McComas, *Psychology*.  
 G. E. Beggs, *Civil Engineering*.  
 E. N. Harvey, *Psychology*.  
 H. S. Taylor, *Physical Chemistry*.  
 L. R. Carey, *Biology*.  
 W. J. Sinclair, *Geology*.  
 N. B. Tooker, *Hygiene*.  
 N. H. Farman, *Chemistry*.  
 C. L. Fleece  
 J. S. MacTaggart, *Military Science and Tactics*.  
 W. K. McClure, *Military Science and Tactics*.

44 Teachers, 8 Instructors, etc.

## Professors—Continued :

W. P. Armstrong, *Literature and Exegesis*.  
 C. R. Erdman, *Practical Theology*.  
 F. W. Loetscher, *Church History*.  
 J. R. Smith, *Homiletics*.  
 C. W. Hodge, *Dogmatic Theology*.

## Assistant Professor :

J. G. Machen, *New Testament Literature and Exegesis*.  
 2 Instructors, 7 Special Lecturers.

# PROVIDENCE (Rhode Island).

**BROWN UNIVERSITY**, Providence, Rhode Island. (1784.)

*Terms* : Three a year.

*Students* : 800.

## OFFICIALS.

*President*.—W. H. Perry Faunce, D.D., LL.D.

*Chancellor*.—A. Buffum Chace, Sc.D.

*Dean*.—O. Everett Randall, Ph.D.

*Registrar and Secretary*.—F. Taft Guild, A.M.

*Treasurer*.—C. Sowle Sweetland, A.M.

**Degrees conferred**.—A.B., A.M., Sc.B., Sc.M., Ph.B., Ph.D., D.P.H.

## PROFESSORS.

### THE FACULTY.

#### Professors :

A. G. Harkness, *Roman Literature and History*.

H. B. Gardner, *Economics*.

O. E. Randall, *Applied Mathematics*.

C. Langdon, *Romance Languages and Literature*.

E. B. Delabarre, *Psychology*.

W. C. Bronson, *English*.

W. G. Everett, *Philosophy and Natural Theology*.

C. Barus, *Physics*.

F. G. Allinson, *Greek Literature and History*.

H. L. Koopman, *Bibliography*.

J. E. Hill, *Civil Engineering*.

J. Q. Dealey, *Social and Political Science*.

W. B. Jacobs, *Education*.

A. D. Mead, *Biology*.

A. K. Potter, *English*.

H. T. Fowler, *Biblical Literature and History*.

L. T. Damon, *English*.

W. H. Kenerson, *Mechanical Engineering*.

L. S. King (Miss), *Classical Literature and Archeology*.

F. W. Marvel, *Physical Training*.

R. G. D. Richardson, *Pure Mathematics*.

T. F. Collier, *European History*.

S. S. Colvin, *Educational Psychology*.

St. G. L. Sioussat, *American History*.

O. W. Abbott, *Military Science and Tactics*.

E. C. Griffith, *History*.

F. P. Gorham, *Bacteriology*.

F. Slocum, *Nautical Science*.

#### Associate Professors :

A. C. Crowell (Miss), *Germanic Languages and Literatures*.

H. P. Manning, *Pure Mathematics*.

A. De F. Palmer, *Physics*.

A. B. Johnson, *Romantic Languages*.

J. F. Greene, *Roman Literature and History*.

G. W. Benedict, *English*.

T. Crosby, jr., *English and Public Speaking*.

H. B. Huntingdon, *English*.

A. Brooks, *Mechanics and Mechanical Drawing*.

C. W. Brown, *Geology*.

H. E. Walter, *Biology*.

R. C. Archibald (Miss), *Pure Mathematics*.

#### Assistant Professors :

A. E. Watson, *Electrical Engineering*.

C. H. Hunkins, *Romance Languages and Literatures*.

P. H. Mitchell, *Physiology*.

H. Cross, *Civil Engineering*.

H. H. York, *Botany*.

W. T. Hastings, *English*.

J. C. Dunning, *Political Science*.

A. H. Jones, *Logic*.

R. McB. Mitchell, *Germanic Languages and Literatures*.

J. A. Hall, *Mechanical Engineering*.

K. K. Smith, *Greek Literature and History*.

C. H. Currier, *Mathematics*.

R. F. Chambers, *Chemistry*.

St. T. Arnold

T. H. Brown, *Nautical Science*.

H. S. Bucklin, *Social Science*.

H. F. Davidson, *Chemistry*.

S. Wilmot, *Applied Mechanics*.

25 Instructors, 5 Lecturers and Demonstrators, 6 Assistants.

**Post-Graduate Courses**.—Leading to A.M., Sc.M., Ph.D., and D.P.H.

#### Libraries.—

University Library of 250,000 volumes. *Librarian* : H. L. Koopman, A.M., Litt.D.

John Carter Library of Americana.

**Museum of Fine Arts**. *Director* : F. G. Allinson, Ph.D.

**Ladd Observatory**. *Director* : R. G. D. Richardson, Ph.D.

# PULLMAN (Washington).

THE STATE COLLEGE OF WASHINGTON, Pullman, Whitman County, Wash.  
(1891.)

Three Semesters a year.

Students : 1,958.

University Budget : \$875,000 per year.

## OFFICIALS.

President.—E. O. Holland, Ph.D.

Vice-President.—O. L. Waller, Ph.M.

General Secretary.—C. A. Isaacs, A.M.

Accountant.—W. C. Kruegel, B.A.

Registrar.—F. T. Barnard, B.S.

Dean of College of Agriculture and Director of the Experiment Station.—E. C. Johnson, M.A.

Dean of College of Home Economics.—Florence Harrison, M.A.

Dean of College of Mechanic Arts and Engineering.—H. V. Carpenter, M.S.

Dean of College of Sciences and Arts.—W. G. Beach, M.A.

Dean of College of Veterinary Science.—S. B. Nelson, D.V.M.

Dean of School of Education.—A. A. Cleveland, Ph.D.

Dean of School of Mines.—L. O. Howard, M.E.

Dean of School of Music and Applied Design.—H. Kimbrough.

Head of School of Pharmacy.—P. H. Dirstine, B.S.

Head of Department of Elementary Science.—F. O. Kreager, B.A.

Director of Agricultural Extension.—S. B. Nelson, D.V.M.

Director of General College Extension.—F. F. Nalder, Ph.D.

Dean of Women.—Rhoda M. White, B.A.

Degrees conferred.—B.A., B.S., M.A., M.S., C.E., E.M., E.E., Ph.G., Ph.C., D.V.M.

## PROFESSORS.

### Professors :

J. P. Fairbank, *Agricultural Engineering.*

H. Hackedorn, *Animal Husbandry.*

E. G. Woodward, *Dairy Husbandry.*

E. G. Schafer, *Farm Crops.*

G. Severance, *Farm Management.*

E. H. Steffen, *Forestry.*

O. M. Morris, *Horticulture.*

R. J. Barnett, *Pomology.*

F. D. Heald, *Plant Pathology.*

R. V. Mitchell, *Poultry Husbandry.*

F. J. Sievers, *Soils.*

R. Weaver, *Architecture.*

O. L. Waller, *Civil Engineering.*

M. K. Snyder, *Sanitary Engineering.*

H. E. Phelps, *Highway Engineering.*

H. V. Carpenter, *Mechanical and Electrical Engineering.*

C. A. Isaacs, *Mathematics.*

J. W. Ramsey, *Applied Electricity.*

A. Cammack, *Steam Engineering.*

B. L. Steele, *Physics.*

F. L. Pickett, *Botany.*

C. C. Todd, *Chemistry.*

C. M. Brewster, *General and Physical Chemistry.*

W. G. Beach, *Sociology and Head of Department of Economic Science and History.*

F. A. Golder, *History.*

### Professors—Continued :

L. F. Jackson, *American History.*

F. F. Nalder, *Sociology.*

B. McCully, *English.*

C. A. Cornelson, *English.*

F. C. Chalfont, *Modern Languages.*

F. F. Potter, *Latin.*

S. Shedd, *Geology.*

A. L. Melander, *Zoology.*

W. T. Shaw, *Zoology.*

A. A. Cleveland, *Education.*

D. W. Hamilton, *Agricultural Education.*

F. Harrison (Miss), *Home Economics.*

Lt.-Col. A. W. Cleary, *Military Science and Tactics.*

L. O. Howard, *Mines.*

H. Kimbrough, *Piano.*

I. Wright-Herbst (Miss), *Vocal Music.*

G. Herbst, *Violin.*

W. T. McDermitt, *Drawing and Design.*

P. H. Dirstine, *Pharmacy.*

J. F. Bohler, *Physical Education.*

S. B. Nelson, *Veterinary Science.*

E. E. Wegner, *Anatomy and Surgery.*

J. W. Kalkus, *Histology and Pathology.*

O. Menig, *Veterinary Medicine.*

F. O. Kreager, *Elementary Science.*

### Associate Professors :

E. C. Colpitts, *Mathematics.*

A. C. Abell, *Mechanical Engineering.*



**Associate Professors—Continued :**

- G. H. Jensen, *Plant Physiology and Pharmacognosy*.  
T. J. Murray, *Bacteriology*.  
R. P. Cope, *Agricultural and Analytical Chemistry*.  
F. Thayer, *Journalism*.  
E. I. Avery (Miss), *Textiles and Clothing*.  
C. G. Warfel, *Mining*.

**Assistant Professors :**

- C. E. Howell, *Animal Husbandry*.  
E. F. Gaines, *Farm Crops*.  
D. P. Hull, *Landscape Gardening and Floriculture*.  
A. F. Heck, *Soils*.  
G. E. Thornton, *Mechanical Engineering*.  
S. C. Roberts, *Manual Training*.  
F. G. Tucker, *Physics*.  
H. C. Aase (Miss), *Botany*.  
A. G. Paterson (Miss), *Analytical Chemistry*.

**Libraries.—**

The College Library.  
The Experiment Station Library.

*Librarian :* W. W. Foot.

**Post-Graduate Courses** offered in practically all Departments.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—E. C. Johnson.

**PUNJAB UNIVERSITY. See LAHORE.**
**QUÉBEC (Canada).**

**UNIVERSITÉ LAVAL**, Québec, Canada. (1852.)

*Terms :* Three a year.

*Students :* 1,283.

**OFFICIALS.**

*Chancellor.*—L'Eminentissime Louis N. Bégin.

*Vice-Chancellor.*—Sa Grandeur Mgr. P. L. N. Bruchési.

*Rector.*—Mgr. F. Pelletier.

*Secretary.*—M. Ph. J. Fillion.

**Degrees conferred.**—Ph.D., B.A., B.L., B.S., M.B., M.D., LL.B., LL.L., B.Th., L.Th., D.Th., B.C.L., L.C.L., D.C.L.

**PROFESSORS.**
**FACULTY OF THEOLOGY.**
**Professors :**

- L. A. Pâquet, *Dogmatic Theology*.  
E. Nadeau, *Moral Theology*.  
J. Gignac, *Canonical Law*.  
Chs. N. Gariépy, *Moral Theology*.  
J. E. Grandbois, *Oriental Languages*.  
P. B. Garneau, *Ecclesiastical History*.  
A. Robert, *Dogmatic Theology*.  
C. Gagnon, *Moral Theology*.  
F. L. Lelandais, *Pastoral Theology*.  
N. V. Many, *Hebrew*.  
J. E. Dorvaux, *Hebrew*.  
F. Duchéin, *Canonical Law*.  
R. Neveu, *Ecclesiastical History*.

**Associate Professors :**

- B. M. Gattet, *Holy Writing*.  
L. J. François, *Holy Writing*.  
L. Perrin, *Dogmatic Theology*.  
H. J. Jeannotte, *Dogmatic Theology*.  
A. Pasquier, *Moral Theology*.  
E. V. Jacob, *Holy Writing*.  
R. Allard, *Dogmatic Theology*.  
2 Fellows.

**FACULTY OF LAW.**
**Professors :**

- L'honorable E. J. Flynn, *Roman Law*.  
Sir A. B. Routheir, *Instructional Law*.  
A. Pouliot, *Civil Proceedings*.



**Professors—Continued :**

L. P. Sirois, *Constitutional Law*.  
 Ls. M. J. A. Bernier, *Commercial Law*.  
 E. Belleau, *Roman Law*.  
 L'honorable C. E. Dorion, *Civil Law*.  
 J. E. Prince, *Social and Political Economy*.

Sir C. Fitzpatrick, *Criminal Law*.  
 L'honorable L. P. Pelletier, *Customs Legislation*.

F. Roy, *Criminal Law*.  
 J. Sirois, *Constitutional Law*.  
 L. St. Laurent, *History of Law*.  
 Sir L. Jetté, *Civil Law*.  
 Sir A. Lacoste, *Commercial Law*. [*Law*.]  
 L'honorable C. C. de Lorimer, *Criminal Law*.  
 L'honorable E. Lafontaine, *Civil Law*.  
 L'honorable L. P. Demers, *Civil Law*.  
 L'honorable R. Lemieux, *History of International Law*.

L'honorable N. Pérodeau, *Law*.  
 P. Cousineau, *Constitutional Law*.  
 Ls. J. S. Morin, *Criminal Law*.  
 R. Taschereau, *Civil Procedure*.  
 V. Morin, *Administrative Law*.  
 E. Montpetit, *Political Economy*.  
 A. Perrault, *Commercial Law*.  
 4 Fellows.

**FACULTY OF MEDICINE.**

**Professors :**

E. Turcotte, *Materia Medica*.  
 M. D. Brochu, *Nervous Diseases*.  
 A. C. Hamel, *Histology*.  
 A. Marois, *Toxicology*.  
 S. Grondin, *Gynecology*.  
 A. Simard, *Pathology*. [*Diseases*.]  
 P. Coote, *Pathology, and Ear and Eye*.  
 R. Fortier, *Children's Diseases*.  
 A. Rousseau, *Pathology and Eye and Ear Diseases*.  
 N. A. Dussault, *Pathology and Eye and Ear Diseases*.  
 R. Paquin, *Hygiene*.  
 J. D. Pagé, *Ophthalmology*.  
 P. V. Faucher, *Materia Medica*.  
 J. Guérard, *Therapeutics*.  
 L. J. N. Fiset, *Laryngology*.  
 R. Mayrand, *Dermatology*.

Library of 107,514 bound volumes and 35,397 pamphlets. Librarians : Ph.B. Garneau and L. E. Nadeau.

Museums of Mineralogy, Geology, Botany, Zoology, Ethnology, Art, Numismatics, and Religion.

**AFFILIATED INSTITUTIONS.**

Ecole Polytechnique de Montréal.  
 Ecole d'Arpentage et de génie forestier, Québec.  
 Institut Agricole d'Oka.  
 Ecole d'Agriculture, de Ste. Anne.

**Professors—Continued :**

C. Dagneau, *Anatomy*.  
 A. Paquet, "  
 A. Vallée, *Bacteriology*.  
 O. Leclerc, *Physiology*.  
 5 Fellows.

**FACULTY OF ARTS.**

**Professors :**

A. Gosselin, *History of Canada*.  
 F. Pelletier, *Greek Literature*.  
 H. Simard, *Physics*.  
 C. Roy, *French Literature*.  
 Ph. J. Fillion, *Chemistry*.  
 A. Rivard, *Elocution*.  
 Sir G. Garneau, *Analytical Chemistry*.  
 L'honorable T. Chapais, *History*.  
 P. Hébert, *Latin Literature*.  
 J. N. Gastonguay, *Topography*.  
 G. C. Piché, *Forestry*.  
 A. Bédard, "  
 A. Smith, *Astronomy*.  
 J. Bouffard, *Forestry Law*.  
 A. Tremblay, *Mathematics*.  
 A. Mercil, "  
 A. Garneau, *Geography*.  
 P. Joncas, *Building Construction*.  
 A. Vachon, *Geology and Mineralogy*.  
 A. Aubert, *French*.  
 O. Bergeron, *Mathematics*.  
 J. F. Laliberté, *Greek Literature*.  
 P. Choquette, *Physics*.  
 G. Dauth, *History and Philosophy*.  
 E. Hébert, *History of Canada*.  
 E. L. Perrin, *Philosophy*.  
 E. Marceau, *Industrial Economy*.  
 A. Curotte, "  
 P. Perrier, "  
 A. Nantel, *Christian Apologetics*.  
 L. A. Jasmin, *Eloquence*.  
 J. B. Lagace, *History of Art*.  
 J. L. Desjardins, *Ecclesiastical History*.  
 E. Chartier, *Canadian Literature*.  
 Sir L. Jetté, *Political Economy*.  
 E. Auclair, *Philosophy*.  
 R. Gautheron, *French Literature*.  
 L. Groux, *History of Canada*.  
 G. Vanier, *Commercial Law*.  
 2 Fellows.

Ecole des Hautes Etudes Commerciales de Montréal.

Ecole Vétérinaire Française, Montréal.  
 Ecole de Chirurgie Dentaire, Montréal.  
 Ecole de Pharmacie, Montréal.

**QUEEN'S COLLEGE.** See MELBOURNE.

**QUEEN'S THEOLOGICAL COLLEGE.** See KINGSTON.

**QUEEN'S UNIVERSITY.** See BELFAST.

# RALEIGH (North Carolina).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—B. W. Kilgore.

RAMJA'S COLLEGE. *See* DELHI.

RANDHIR COLLEGE. *See* KAPURTHALA.

# RANGOON (Burma).

RANGOON COLLEGE, RANGOON. (1885.)

The College is affiliated to the B.A. and B.Sc., standard of the Calcutta University in English, Pali, Mathematics, and Chemistry to the Honours standard; and in Persian, Philosophy, and Physics to the Pass standard.

*Terms* : Two a year.

*Students* : 680.

*Budget* : Rs. 176,091: 12: 3.

## OFFICIAL.

*Principal.*—M. Hunter, M.A., C.I.E.

## PROFESSORS.

G. H. Luce, *English*.

A. Campbell „

C. W. Ainley „

W. Douglas „

M. Tin, *Pali*.

L. G. Owen, *Mathematics*.

K. P. De, *Mathematics*.

L. P. Saunders, *Philosophy*.

G. R. T. Ross „

A. E. Bellars, *Chemistry*.

R. Venkateswaran, *Chemistry*.

K. M. Ward, *Physics*.

10 Lecturers.

# RAPID CITY (South Dakota).

SOUTH DAKOTA STATE SCHOOL OF MINES, Rapid City, South Dakota, U.S.A. (1885.)

*Terms* : Two semesters.

*Students* : 125.

*Budget* : Legislative appropriations with fees, etc., will amount for the years 1919-20 and 1920-21 to approximately \$250,000, including \$100,000 for a new engineering building.

## OFFICIALS.

*President.*—C. C. O'Harra.

Degrees conferred.—B.S. in Mining Engineering, B.S. in Metallurgical Engineering, E.M. (Engineer of Mines), M.E. (Metallurgical Engineer).

## PROFESSORS.

Professors :

C. C. O'Harra, *Geology*.

H. L. McLaury, *Mathematics*.

J. McLearn, *English*.

J. P. Connolly, *Mineralogy and Petrography*.

C. S. Bisson, *Chemistry*.

C. L. Swisher, *Physics*.

Professors—*Continued* :

W. C. Bochart, *Mining*.

F. W. Traphagem, *Metallurgy*.

A. S. Hathway, *Civil Engineering*.

Assistant Professors :

B. E. Leete, *Biology*.

C. Bentley, *Analyst in charge of State Mining Experiment Station*.

*Museums.*—Geological Museum and Metallurgical Museum.

*Library.*—Technical Library of 8,000 volumes. *Librarian* : D. M. Haft.

# RAWALPINDI (Punjab).

GORDON COLLEGE, Rawalpindi, Punjab.

Affiliated to the University of the Punjab, Lahore.

*Students* : 175.

OFFICIALS.

*Principal.*—Rev. E. Porter, M.A., D.D.

PROFESSORS.

E. L. Porter, <i>English.</i>	L. S. Nand, <i>Mathematics.</i>
W. H. Merriam, „	I. Latif, <i>Philosophy.</i>
R. R. Stewart, <i>Biology.</i>	R. Singh, <i>English and History.</i>
J. E. Strong, <i>Physics and Chemistry.</i>	M. M. Akram, <i>Persian and Arabic.</i>
P. Ponsonby, <i>History and Economics.</i>	Pt. U. Chend, <i>Sanskrit.</i>
M. A. Rahman, <i>Persian and English.</i>	

READING.

UNIVERSITY COLLEGE, Reading. (1892.)

*Terms* : Three a year.

*Students* : 1,200 day and evening.

OFFICIALS.

*Visitor.*—The Very Rev. The Dean of Christ Church, Oxford.

*President.*—J. Herbert Benyon, M.A., J.P. (Lord Lieut. of Berkshire).

*Chairman of Council.*—Alfred Palmer, J.P.

*Principal.*—W. M. Childs, M.A.

*Registrar.*—Francis H. Wright, M.A.

**Degrees.**—As the College is not an independent University it has no power to confer degrees; but it offers Diplomas in Letters, Agriculture, Horticulture, Dairying, Fine Arts, Commerce, Music, and Domestic subjects.

PROFESSORS.

FACULTY OF LETTERS.

**Professors :**

W. G. D. Burgh, *Philosophy.*  
 P. N. Ure, *Classics.*  
 R. Dewar, *English Literature.*  
 E. J. Morley (Miss), *English Language.*  
 F. M. Stenton, *Modern History.*  
 W. M. Childs (Hon.), *Modern History.*  
 2 Research Fellows, 20 Lecturers, 2  
 Assistant Lecturers, 2 Teachers.

FACULTY OF SCIENCE.

W. G. Duffield, *Physics.*

**Professors—Continued :**

H. Bassett, *Chemistry.*  
 F. J. Cole, *Zoology.*  
 H. N. Dickson, *Geography.*  
 9 Lecturers, 1 Assistant.

FACULTY OF AGRICULTURE AND  
HORTICULTURE.

S. J. M. Auld, *Agricultural Chemistry.*  
 J. Percival, *Agricultural Botany.*  
 8 Lecturers, 1 Analyst, 1 Research  
 Chemist, 1 Research Bacteriologist,  
 5 Assistants, 1 Instructor.

INCORPORATED INSTITUTIONS.

The British Dairy Institute.

The Research Institute in Dairying.

RENSSLAER POLYTECHNIC INSTITUTE. *See* TROY.

RENO (Nevada).

UNIVERSITY OF NEVADA, Nevada, U.S.A. (1873.)

The University of Nevada is the only institution of higher education in the State of Nevada, and it combines the advantages usually offered in other States in the Normal School, Agricultural College, and the University.

*Terms* : Two semesters of five months each, and a summer session of six weeks.

*Students* : In normal times 350. Last year, because of war conditions, 285.

OFFICIALS.

*President.*—W. E. Clark.

*Vice-President.*—R. Lewers.

*Registrar.*—Miss L. M. Sissa.

*Comptroller.*—C. H. Gorman.

*Superintendent of the Buildings.*—J. B. Lynch.

Degrees conferred.—B.A. or B.S., B.S. in Engineering, B.S. in Agriculture and in Home Economics, M.A., and M.S.

### PROFESSORS.

#### FACULTY OF ARTS AND SCIENCES.

##### Professors :

J. E. Church, *Classics*.  
J. E. Wier, *History*.  
P. Frandsen, *Biology*.  
R. Adams, *Economics and Sociology*.  
M. Adams, *Chemistry*.  
H. W. Hill, *English*.  
L. W. Hartman, *Physics*.  
R. C. Thompson, *Philosophy*.  
W. S. Palmer, *Metallurgy*.  
C. S. Spencer, *Political Science*.  
A. E. Hill, *English*.  
J. P. Ryan, *Military Science and Tactics*.

##### Associate Professors :

K. Lewers (Miss), *Freehand Drawing*.  
C. Goggio, *Romanic Languages and Literature*.  
W. E. Lowther, *Romanic Languages and Literature*.  
K. Riegelhuth (Miss), *German*.  
A. E. Turner, *Oral English*.  
G. W. Sears, *Chemistry*.

##### Assistant Professors :

S. C. Feemster, *History*.  
M. E. Mack (Miss), *Biology*.

#### FACULTY OF ENGINEERING.

##### Professors :

H. P. Boardman, *Civil Engineering*.  
C. Hasaman, *Mathematics and Mechanics*.  
F. C. Lincoln, *Mining*.  
J. C. Jones, *Geology and Mineralogy*.  
S. G. Palmer, *Electrical Engineering*.

##### Associate Professors :

J. A. Nyswander, *Mathematics and Mechanics*.  
P. G. McKinlay, *Mechanical Engineering*.

##### Assistant Professors :

A. W. Preston, *Mechanical Engineering*.  
C. R. Hill, *Civil Engineering*.

#### FACULTY OF EDUCATION.

##### Professors :

J. R. Young, *Education*.  
A. L. Day (Miss), *Education*.  
M. L. Sears, *Home Economics*.

##### Associate Professors :

E. Sameth (Miss), *Physical Education for Women*.  
R. O. Cortwright, *Physical Education for Men*.

##### Assistant Professor :

F. W. Traner, *Education*.

#### FACULTY OF AGRICULTURE.

##### Professors :

C. S. Knight, *Agronomy*.  
F. W. Wilson, *Animal Husbandry*.  
E. Records, *Veterinary*.

##### Associate Professors :

V. E. Scott, *Dairying*.  
C. E. Fleming, *Animal Husbandry*.  
F. L. Bixby, *Agronomy*.

##### Assistant Professors :

S. C. Dinsmore, *Agricultural Chemistry*.  
C. W. Lantz, *Botany and Horticulture*.  
G. Hardman, *Agronomy*.  
Also 9 Instructors and Assistants.

**Post-Graduate Courses.**—Post-Graduate Courses are offered in all Departments of the University.

##### Museums.—

Mackay Mining Museum.  
Agricultural Museum.  
Biological Museum.  
Pathological Museum.

**Library.**—The University Library consists of 32,000 bound volumes and several thousand pamphlets. Also various departmental libraries. Mining Library, Agricultural Library.

Phi Kappa Phi is the student Honor Society.

### AFFILIATED INSTITUTIONS.

A Public Service Division constituted of the following six departments:

1. Agricultural Experiment Station.
2. Agricultural Extension Division.
3. Food and Drugs Control, and Weights and Measures.
4. State Hygienic Laboratory.
5. State Veterinary Control Service.
6. State Mining Laboratory.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—S. B. Doten.

**RHODES UNIVERSITY COLLEGE.** *See* GRAHAMSTOWN.

**RIO PIEDRAS (Porto Rico).**

**INSULAR STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—E. D. Colon.

**ROBERTSON COLLEGE.** *See* EDMONTON.

**ROCHESTER (New York).**

**ROCHESTER THEOLOGICAL SEMINARY, Rochester, New York, U.S.A. (1850.)**

Admits College Graduates only; not co-educational.

*Terms* : Three per year.

*Students* (1919-1920): 61.

*Budget* : \$78,635.03.

**OFFICIALS.**

*President.*—The Rev. C. A. Barbour, D.D.

*Dean.*—The Rev. J. W. A. Stewart, D.D., LL.D.

*Registrar.*—The Rev. G. B. Ewell, A.B., B.D.

**Degrees conferred.**—B.D., Th.M. The Hoods are royal purple and gold.

**PROFESSORS.**

A. H. Strong (President Emeritus).  
C. A. Barbour, *Homiletics*.  
J. P. Silvernail, *Elocution and Sacred Oratory*.  
J. W. A. Stewart, *Christian Ethics and Pastoral Theology*.  
C. H. Moehlmann, *Church History*.  
G. Cross, *Systematic Theology*.

H. B. Robins, *Religious Education, the History and Philosophy of Religion and Missions*.  
E. W. Parsons, *New Testament Interpretation*.  
J. W. Nixon, *English Bible and Christian Sociology*.  
J. R. Brown, *Hebrew Language and Literature*.

**Library.**—46,776 volumes. *Librarian* : The Rev. G. B. Ewell, A.B., B.D.

**ROSE POLYTECHNIC INSTITUTE.** *See* TERRE HAUTE.

**ROTHAMSTED.**

**ROTHAMSTED EXPERIMENTAL STATION, Rothamsted.**

John Bennet Lawes was the founder of the Rothamsted Experimental Station. He began systematic field experiments in 1843 in conjunction with Joseph Henry Gilbert; this partnership lasted until the death of Lawes in 1900.

Under the scheme initiated by the Board of Agriculture for establishing a number of Institutes for fundamental research in agriculture, the Rothamsted Experimental Station has been recognized as the Institute for dealing with Soil and Plant Nutrition Problems, and since 1911 it has received an annual grant out of the Development Fund which has been gradually increased from £2,500 to £4,750.

In 1918, at the instigation of the Board of Agriculture, an Institute for investigations in Plant Pathology was established at Rothamsted comprising three sections dealing respectively with Entomology, Mycology, and Helminthology.

**OFFICIALS.**

*Director.*—E. J. Russell, D.Sc., F.R.S.

*Secretary.*—Miss Ruth Gimingham.

**PROFESSORS.**

E. H. Richards, *Chemist*.  
F. Tattersfield     "  
E. Horton            "

D. J. Matthews, *Chemist*.  
G. C. Sawyer       "  
E. M. Crowther     "



**Professors—Continued:**

W. A. Roach, *Chemist*.  
 B. A. Keen, *Soil Physicist*.  
 H. G. Thornton, *Bacteriologist*.  
 W. E. Brechley (Miss), *Botanist*.  
 L. M. Crump (Miss), *Protozoologist*.  
 D. W. Cutler, *Protozoologist*.

**Professors—Continued:**

D. J. Matthews (Mrs.), *Research Biologist*.  
 A. D. Imms, *Entomologist*.  
 W. B. Brierley, *Mycologist*.  
 S. T. Jewson (Miss), *Assistant Mycologist*.

**SACKVILLE (New Brunswick).**

**MOUNT ALLISON UNIVERSITY**, Sackville, New Brunswick. (1862.)

*Terms*: Two terms a year.

*Students*: 240.

**Budget:**

Revenue from all sources	..	..	..	\$61,315.47.
Expenditure	..	..	..	\$56,821.17.

**OFFICIALS.**

*President*.—Rev. B. C. Borden, D.D., D.C.L.

*Registrar*.—W. M. Tweedie, M.A.

**Degrees conferred:****Degrees.****Hoods.**

B.A.	-	Black stuff edged on inside with garnet silk.
B.Sc.	-	Black stuff edged on inside with gold-coloured silk.
B.Mus.	-	Black stuff edged on inside with royal blue silk.
B.D.	-	Black stuff edged on inside with garnet silk and ermine.
M.A.	-	Black stuff or silk with lining of garnet silk.
D.D.	-	Scarlet cloth lined with purple silk.
LL.D.	-	Scarlet cloth lined with blue silk.
D.C.L.	-	Scarlet cloth lined with old gold silk.

**PROFESSORS.****FACULTY OF ARTS AND SCIENCE.****Professors:**

Rev. B. C. Borden, *Political Science*.  
 S. W. Hutton, *Mathematics*.  
 W. M. Tweedie, *English Language and Literature*.  
 J. M. Palmer, *French Language and Literature*.  
 H. E. Bigelow, *Chemistry*.  
 Rev. R. B. Liddy, *Philosophy*.  
 C. C. Delano, *Classics*.  
 P. B. Perkins, *Physics*.  
 A. B. Dawson, *Biology*.

**FACULTY OF ENGINEERING****Professors:**

J. W. Crowell, *Engineering*.  
 H. W. McKiel, *Mechanical Engineering*.

**FACULTY OF THEOLOGY.****Professors:**

Rev. W. G. Watson, *Hebrew, Old Testament Exegesis and English Bible*.  
 Rev. F. W. W. Des Barres, *Church History*.  
 Rev. J. Line, *Systematic Theology and History of Doctrine*.  
 3 Lecturers, 3 Instructors.

**Post-Graduate Courses.**—Specially organized Graduate Department.

*Librarian*: F. W. W. Des Barres.

**ST. ALBANS (Herts).**

**HERTFORDSHIRE NATURAL HISTORY SOCIETY**, County Museum, St. Albans, Herts.

**OFFICIALS.**

*President*.—A. E. Boycott, M.A., M.D., B.Sc., B.Ch., F.R.S.

*Treasurer*.—J. Weall.

*Hon. Secretaries*.—C. Oldham, E. J. Salisbury, D.Sc.

**ST. ANDREWS.**

**UNIVERSITY OF ST. ANDREWS**, St. Andrews. (1411.)

*Terms*: Three a year.

*Students* (1918-1919): 513.

## OFFICIALS.

*Chancellor.*—The Right Hon. Lord Balfour of Burleigh, K.T., LL.D.

*Vice-Chancellor.*—Sir John Herkless, D.D., LL.D.

*Rector.*—Sir James Matthew Barrie, Bart., LL.D.

*Principal.*—Sir J. Herkless, D.D., LL.D.

*Principal St. Mary's College.*—The Very Rev. G. Galloway, M.A., B.D., D.Phil., D.D.

*Principal University College, Dundee.*—J. Y. Mackay, M.D., LL.D.

## Degrees conferred :

## Degrees.

M.A.	- -	Black silk, with red silk lining.
B.D.	- -	Violet-purple silk or cloth, bordered with white fur.
D.D.	- -	Violet-purple silk or cloth, with white satin lining.
LL.D.	- -	Scarlet silk or cloth, with white satin lining.
M.B., Ch.B.	- -	Crimson silk or cloth, bordered with white fur.
M.D.	- -	Crimson silk or cloth, with white satin lining.
D.Litt.	- -	Orange silk, with white lining.
B.Litt.	- -	Orange silk, bordered with white fur.
D.Phil.	- -	Yellow silk, with white lining.
B.Phil.	- -	Yellow silk, bordered with white fur.
Mus.D.	- -	Coculean blue silk or cloth, with white satin lining.
Ch.M., Ed.B.	- -	Hoods not yet prescribed.

## Hoods.

## PROFESSORS, ETC.

## Professors :

- J. Burnet, *Greek*.  
 A. Lawson, *English Literature*.  
 J. Edgar, *Education*.  
 G. F. Stout, *Logic and Metaphysics*.  
 A. E. Taylor, *Moral Philosophy*.  
 P. R. S. Lang, *Mathematics*.  
 A. S. Butler, *Natural Philosophy*.  
 J. E. Stoddart, *Mathematics*.  
 D. W. Thompson, *Natural History*.  
 P. Geddes, *Botany*.  
 W. Peddie, *Physics*.  
 J. C. Irvine, *Chemistry*.  
 A. H. Gibson, *Engineering and Drawing*.  
 A. McKenzie, *Chemistry*.  
 D. Waterston, *Anatomy*.  
 J. F. Gemmill, *Natural History*.  
 J. J. Mackay, *Anatomy*.  
 E. W. Reid, *Physiology*.  
 A. M. Stalker, *Medicine*.  
 J. A. C. Kynoch, *Midwifery*.  
 L. R. Sutherland, *Pathology*.  
 P. T. Herring, *Physiology*.  
 L. T. Price, *Surgery*.  
 F. J. Charteris, *Materia Medica*.  
 G. Galloway, *Divinity*.  
 W. M. Lindsay, *Humanity*.  
 D. M. Kay, *Hebrew and Oriental Language*.  
 A. Main, *Ecclesiastical History*.  
 G. Duncan, *Divinity and Biblical Criticism*.  
 31 Assistant Lecturers.

## Readers :

- R. A. Robertson, *Botany*.  
 W. N. Haworth, *Chemistry*.

## Lecturers :

- J. Allison, *Scots Law*. [*Literature*.]  
 T. R. Mills, *Latin Language and*

## Lecturers—Continued :

- T. P. Young, *French Language and Literature*.  
 G. Soutar, *English Language and Literature*.  
 H. J. Thomson, *Latin*. [*Literature*.]  
 J. A. Roy, *English Language and Literature*.  
 J. D. Mackie, *Modern History*.  
 F. J. Tanqueray, *French Language and Literature*.  
 D. Morrison, *Logic and Psychology*.  
 W. L. Lorimer, *Greek*.  
 J. W. Williams, *Political Economy*.  
 C. D. Broad, *Logic and Psychology*.  
 K. Hayens, *German*.  
 Smith, M. (Miss) ,,  
 J. H. Wilson, *Agriculture and Rural Economy*.  
 W. G. Robson, *Natural Philosophy*.  
 G. Robertson, *Chemistry*.  
 J. K. Wood, *Chemistry*.  
 A. Fulton, *Engineering*.  
 G. West, *Botany*.  
 A. MacGillivray, *Ophthalmology*.  
 J. M. Whyte, *Clinical Medicine*.  
 D. M. Greig, *Clinical Surgery and Diseases of Children*.  
 R. C. Buist, *Midwifery and Gynecology*.  
 W. T. Mackenzie, *Mental Diseases*.  
 J. S. Y. Rogers, *Diseases of Children*.  
 W. E. Foggie, *Diseases of the Skin*.  
 F. M. Milne, *Clinical Pathology*.  
 W. L. Robertson, *Clinical Surgery*.  
 R. P. Mathers, *Diseases of the Throat, Nose, and Ear*.  
 D. R. Dow, *Regional Anatomy*.  
 W. L. Burgess, *Fevers, and on Public Health*. [*ology*.]  
 W. E. Collinge, *Comparative Embryology*.  
 W. J. Tulloch, *Bacteriology*.

**Post-Graduate Courses.**—Post-Graduate work can be carried on in the Science and Medical Departments at St. Andrews and Dundee, including Chemistry, Botany, Zoology, Natural Philosophy, Anatomy, Physiology, Engineering, Electrical Engineering, Agriculture, and in the several Arts Departments.

**Libraries.**—

University Library, St. Andrews.

University College, Dundee.

*Librarians* : J. M. Anderson, LL.D., and H. Willsher.

**Museums.**—

Bell Pettigrew Museum. *Director* : Prof. D'A. W. Thompson.

Chemical Research Laboratory. *Director* : Prof. J. C. Irvine.

INCORPORATED INSTITUTIONS.

United College of St. Salvator and St. Leonard (1450).

St. Mary's College (1537).

University College, Dundee (1883).

These are incorporated in and form part of the University of St. Andrews.

**ST. CROIX (Virgin Islands).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Agronomist.*—Longfield Smith.

**ST. DAVID'S COLLEGE. See LAMPETER.**

**ST. 'HELIER (Jersey).**

**THE ST. LOUIS OBSERVATORY, St. Héliér, Jersey.**

Founded in 1893 for Meteorological, Magnetical, and Electrical Studies. Each year the observations are published in a Bulletin. Since 1914 the Bulletins form part of the Geophysical Journal edited by the Meteorological Office of London.

*Director.*—The Rev. M. Dechevrens, S.J.

**SAINT JOHN (New Brunswick).**

**NATURAL HISTORY SOCIETY OF NEW BRUNSWICK, Saint John, New Brunswick. (1862.)**

The Natural History Society of New Brunswick was organized in 1862, and has for many years maintained a natural history and historical Museum. Its Library contains upwards of fifteen thousand books and pamphlets. It publishes a bulletin, six volumes of which have been issued, and is the largest Museum in the province of New Brunswick. Its policy is to acquire as complete collections as possible of local material. At present it has the largest collection extant in eastern Canadian archeology, zoology, botany, entomology, and paleontology, including much type material. The financial support is from the general funds of the Society, aided by appropriations from the Provincial and Municipal Governments.

*President.*—J. Roy Campbell, B.C.L., LL.D., K.C.

*Corresponding Secretary and Curator.*—W. MacIntosh.

**ST. JOHN'S COLLEGE. See ANNAPOLIS.**

**ST. LOUIS (Missouri).**

**ST. LOUIS UNIVERSITY, Mo., U.S.A. (1818.)**

*Terms* : Two semesters.

*Students* : 1,469.

**OFFICIALS.**

*President.*—Rev. B. J. Otting, S.J.

*Chancellor.*—Rev. C. T. Kohne, S.J.

*Secretary.*—Rev. M. McMenamy, S.J.

*Treasurer.*—Rev. C. T. Hoffman, S.J.

**Degrees conferred.**—A.B., A.M., B.S., Ph.B., LL.B., LL.M., B.C.S., D.D.S., M.D.

## PROFESSORS.

## FACULTY OF ARTS AND SCIENCES.

## Professors :

- Rev. C. J. Borgmeyer, *Mathematics and Astronomy*.  
 Rev. J. P. Coony, *Chemistry*.  
 Rev. J. L. Davis, *English*.  
 Rev. H. J. DeLaak, *Mathematics*.  
 Rev. H. Gruender, *Psychology*.  
 Rev. L. J. Kenny, *History*.  
 Rev. O. J. Kuhnmuensch, *Latin*.  
 D. A. Lord, *English*.  
 J. B. Louis, *Drawing*.  
 Rev. M. McMenamy, *Special Metaphysics*.  
 Rev. J. B. Macelwane, *Mathematics*.  
 Rev. A. Muntch, *Spanish and French*.  
 T. A. O'Reilly, *Surveying*.  
 Rev. W. A. Padberg, *Philosophy*.  
 A. H. Poetker, *Physics and Geology*.  
 W. S. Robb, *Chemistry*.  
 Rev. A. J. Rother, *Logic and Ontology*.  
 Rev. W. J. Ryan, *Mathematics*.  
 Rev. T. J. Schulte, *Chemistry*.  
 Rev. J. J. Shannon, *Physics*.  
 Rev. M. I. Stritch, *Special Metaphysics and History of Philosophy*.  
 F. A. Thornton, *Economics and Political Science*.  
 Rev. T. A. Wallace, *Ethics*.

## Associate Professor :

- H. G. Bristow, *Chemistry*.

## SCHOOL OF MEDICINE.

## Professors :

- C. Barck, *Ophthalmology*.  
 C. G. Chaddock, *Diseases of the Nervous System*.  
 W. T. Coughlin, *Surgery*.  
 H. Ehrenfest, *Gynecology and Obstetrics*.  
 W. P. Elmer, *Medicine*.  
 W. Engelbach, *Medicine*.  
 C. Glaser, *Oral Surgery and Dental Hygiene*.  
 W. W. Graves, *Nervous Diseases*.  
 J. Grindon, *Dermatology and Syphilology*.  
 B. M. Hypes, *Obstetrics*.  
 D. R. Joseph, *Physiology*.  
 B. Lewis, *Genito-Urinary Diseases*.  
 H. W. Loeb (Dean), *Throat Diseases*.  
 V. Loeb, *Oral Surgery*.  
 C. H. Neilson, *Medicine*.  
 C. M. Nicholson, *Surgery*.  
 A. G. Pohlman, *Anatomy*.  
 D. M. Schoemaker, *Anatomy*.  
 M. G. Seelig, *Surgery*.  
 R. L. Thompson, *Pathology*.  
 J. Zahorsky, *Children's Diseases*.

## Associate Professors :

- C. E. Burford, *Genito-Urinary Diseases*.  
 A. Kuntz, *Anatomy and Biology*.

## Associate Professors—Continued :

- W. E. Leighton, *Surgery*.  
 C. Smith, *Surgery and Surgical Pathology*.  
 P. H. Swahlen, *Obstetrics and Gynecology*.

## Assistant Professors :

- F. W. Bailey, *Surgery*.  
 L. Boisliniere, *Medicine*.  
 J. M. Brady, *Diseases of Children*.  
 J. McH. Dean, *Surgery*.  
 M. S. Fleisher, *Pathology and Bacteriology*.  
 A. E. Horwitz, *Orthopedic Surgery*.  
 E. E. Kurtzeborn, *Genito-Urinary Diseases*.  
 G. Lippmann, *Children's Diseases*.  
 S. T. Lipsitz, *Medicine*.  
 H. S. McKay, *Surgery*.  
 F. Neuhoft, *Medicine*.  
 L. Rassieur, *Surgery*.  
 H. J. Scherek, *Genito-Urinary Diseases*.  
 F. J. Tainter, *Anatomy*.  
 H. Wheelon, *Physiology*.  
 W. S. Wiatt, *Surgery*.

## SCHOOL OF DENTISTRY.

## Professors :

- J. P. Harper (Dean).  
 S. T. McMillin, *Dental Anatomy*.  
 E. B. Owen, *Prosthetic Dentistry*.  
 H. A. Rathbun, *Dental Pathology*.  
 R. B. Rode, *Crown and Bridge Work*.  
 F. C. Rodgers, *Orthodontia*.  
 G. B. Winter, *Exodontia*.

## SCHOOL OF DIVINITY.

## Professors :

- Rev. R. S. Johnston, *Apologetics*.  
 Rev. F. B. Kloeker, *Dogmatic Theology*.  
 Rev. L. A. Lilly, *Canon Law*.  
 Rev. T. A. McCourt, *Sacred Scripture and Hebrew*.  
 Rev. F. X. Mannhardt, *Ecclesiastical History*.  
 Rev. F. J. O'Boyle (Dean), *Moral Theology*.  
 Rev. B. J. Otten, *Dogmatic Theology*.  
 Rev. W. F. Robison, *Apologetics*.  
 Rev. J. L. Spaeth, *Dogmatic Theology and Hebrew*.

## SCHOOL OF COMMERCE AND FINANCE.

## Professors :

- F. C. Belser, *Cost Accounting*.  
 R. C. Brown, *Accounting*.  
 Rev. J. L. Davis, *Public Speaking*.  
 H. C. Dyer, *Law*.  
 D. T. Farnham, *Industrial Engineering*.  
 T. L. Gaukel, *Commerce*.  
 F. A. Thornton, *Economics*.  
 G. W. Wilson, *Dean*.

# Assistant Professors :

A. F. Barnes, *Accounting*.  
H. L. Hunt                    "  
C. J. Kehoe, *Commerce*.  
J. E. King, *Law*.  
C. R. Laws, *Accounting*.  
R. F. McNally, *Finance*.  
J. Sheppard-Smith, *Finance*.  
E. H. Wagner, *Accounting*.

## INSTITUTE OF LAW.

### Professors :

P. Bakewell, *Dean*.

**Museum.**—The University Museum.

**Library.**—The University Library. *Librarian*: Rev. C. H. Cloud, S.J. Each Department has a special library.

WASHINGTON UNIVERSITY, St. Louis, Mo., U.S.A. (1853.)

*Terms*: Two per year.

*Students*: 3,311, including School of Fine Arts, and those in Division of University Extension.

### OFFICIALS.

*President*.—Robt. Somers Brookings.

*Chancellor*.—Frederic Aldin Hall.

*Treasurer and Secretary to Corporation*.—L. Kotany.

**Degrees conferred.**—Ph.D., A.M., M.Arch., A.B., B.S., C.E., E.E., M.E., LL.B., B.Arch., D.D.S., M.D.

## COLLEGE OF ARTS AND SCIENCES.

### Professors :

O. Heller, *German Language and Modern European Literature*.  
F. W. Shipley, *Latin*.  
E. J. Swift, *Psychology and Education*.  
G. Douay, *French Language and Literature*.  
H. Smith, *Drawing and History of Art*.  
R. G. Usher, *History*.  
W. E. McCourt, *Geology*.  
L. R. McMaster, *Chemistry*.  
W. H. Roever, *Pure Mathematics*.  
W. R. Mackenzie, *English*.  
L. Pyle, *Physics*.  
G. O. James, *Applied Mathematics*.  
W. M. Craigie, *Military Science and Tactics*.  
C. Gwer, *Geology*.  
G. Stephens, *Sociology*.

### Associate Professors :

W. H. Chenery, *Romanic Language*.  
C. E. Cory, *Philosophy*.  
G. I. Dale, *Spanish and Italian*.  
O. Dunkel, *Mathematics*.  
T. S. Duncan, *Greek and Latin*.

### Assistant Professors :

P. Seiberth, *German*.  
F. C. Walker, *English*.  
A. Taylor, *German*.  
T. R. Ball, *Chemistry*.  
J. H. Brown, *French*.

### Professors—Continued :

I. V. Barth, *Equity*.  
C. O. Bishop, *Criminal Law*.  
A. G. Eberle, *Contracts and Partnerships*.  
S. E. Edmunds, *International Law*.  
F. L. English, *Torts and Corporations*.  
J. H. Grimm, *Civil Procedure*.  
Rev. L. A. Lilly, *Roman and Canon Law*.  
J. McDonald, *Constitutional Law*.  
A. H. Robbins, *Real Property*.  
W. F. Woerner, *Wills*.

### Assistant Professors—Continued :

P. R. Rider, *Mathematics*.  
F. B. Hanson, *Zoology*.  
L. F. Thomas, *Geology*.  
C. Stephenson, *History*.  
O. H. Pierce, *Chemistry*.  
W. D. Shipton, *Geology*.  
W. W. Hollingsworth, *Political Science*.  
F. M. Webster, *English*.  
E. Tavnner, *Latin and Greek*.  
R. R. Hollingsworth, *Education*.  
C. F. Hagenow, *Physics*.  
R. P. Bieber, *History*.  
R. F. Jones, *English*.  
F. P. Hardaway, *Military Science and Tactics*.  
C. E. Cullen, *Economics*.  
Directors of Physical Training for Men and Women, 15 Instructors, 2 Lecturers, 2 Teaching Fellows, 11 Assistants.

## SCHOOLS OF ENGINEERING AND ARCHITECTURE.

### Professors :

J. L. Van Ornum, *Civil Engineering*.  
A. S. Langsdorf, *Electrical Engineering*.  
E. L. Ohle, *Mechanical Engineering*.  
G. Ferrand, *Design*.

### Associate Professors :

F. A. Berger, *Mechanical Engineering*.  
H. G. Hake, *Electrical Engineering*.  
E. O. Sweetser, *Civil Engineering*.  
L. Hill, *Architecture*.



**Assistant Professors :**

A. E. Fitch, *Architectural Construction*.  
F. W. Bubb, *Applied Mathematics*.  
7 Instructors, 1 Assistant.

**SCHOOL OF COMMERCE AND FINANCE.**

**Professors :**

W. F. Gephart, *Economics*.  
G. E. Putnam, *Banking and Finance*.  
I. Lippincott, *Economics*.  
W. S. Krebs, *Accounting*.

**Associate Professors :**

C. E. Persons, *Sociology*.  
1 Lecturer, 10 Special Lecturers.

**SCHOOL OF BOTANY.**

**Professors :**

G. T. Moore, *Botany*.  
B. M. Duggar, *Plant Physiology*.  
J. M. Greenman, *Botany*.  
E. A. Burt, *Botany*.  
2 Teaching Fellows.

**THE SCHOOL OF LAW.**

**Professors :**

T. Williams, *Commercial Law*.  
J. H. Zumbalen, *Law*.  
E. B. Conant, *Law*.  
5 Lecturers.

**SCHOOL OF MEDICINE.**

**Professors :**

J. B. Shapleigh, *Otology*.  
G. Dock, *Medicine*.  
J. Erlanger, *Physiology*.  
E. L. Opie, *Pathology*.  
P. A. Shaffer, *Biological Chemistry*.  
R. J. Terry, *Anatomy*.  
L. Loeb, *Comparative Pathology*.  
W. McK. Marriott, *Pediatrics*.  
E. A. Graham, *Surgery*.  
E. K. Marshall, jr., *Pharmacology*.  
H. Schwarz, *Obstetrics*.  
P. Y. Tupper, *Surgery*.

**Museum.**—A Dental Museum.

**Libraries.**—

Arts and Sciences, 85,000 volumes, 14,000 pamphlets.  
Botany, 36,000 volumes, 47,000 pamphlets.  
Law School, 20,000 volumes.  
Medical, 26,680 volumes.  
Dental, 6,000 volumes.  
Fine Arts, 2,330 volumes, 2,200 pamphlets.

**Librarians :** J. A. McMillen, R. H. McRoberts, Miss E. B. Lawrence, Miss L. G. Glaser.

**AFFILIATED INSTITUTION.**

Mary Institute: a secondary school for girls.

**CONCORDIA THEOLOGICAL SEMINARY, St. Louis, Mo., U.S.A. (1839.)**

**Terms :** September to June.

**Students :** 378.

**Budget :** Expenses are defrayed by Evangelical Lutheran Synod of Missouri, Ohio, and other States.

**Professors Continued :**

F. R. Fry, *Neurology*.  
H. G. Mudd, *Surgery*.  
G. M. Tuttle, *Pediatrics*.  
E. S. Smith, *Medicine*.  
A. E. Ewing, *Ophthalmology*.  
G. Sluder, *Laryngology and Rhinology*.  
M. F. Engman, *Dermatology*.  
B. S. Veeder, *Clinical Pediatrics*.  
E. Sachs, *Clinical Neurological Surgery*.  
N. Allison, *Clinical Orthopedic Surgery*.  
S. I. Schwab, *Clinical Neurology*.

**Associate Professors :**

G. C. Robinson, *Medicine*.  
A. E. Taussig, *Clinical Medicine*.  
C. H. Danforth, *Anatomy*.  
P. C. Jeans, *Pediatrics*.  
M. T. Burrows, *Pathology*.  
1 Lecturer, 20 Associates, 29 Instructors, 42 Assistants.

**SCHOOL OF DENTISTRY.**

**Professors :**

J. H. Kennerly, *Clinical Dentistry and History of Dentistry*.  
W. M. Bartlett, *Prosthetic Dentistry*.  
B. E. Lischer, *Orthodontics*.  
B. N. Pippin, *Operative Dentistry*.  
O. H. Campbell, *Physiology*.  
V. P. Blair, *Oral Surgery*.  
J. E. Cook, *Bacteriology and General Pathology*.  
E. P. Brady, *Chemistry, Materia Medica, Metallurgy, Pathology, and Therapeutics*.  
M. Pitzman, *Anatomy*.

**Associate Professors :**

J. D. White, *Prosthetic Dentistry*.  
L. G. Neuhoft, *Dental Anatomy*.  
5 Instructors, 4 Lecturers, 3 Assistants.

**SCHOOLS OF FINE ARTS.**

**Director :** E. H. Wuerpel.  
10 Instructors.

OFFICIALS.

*President.*—Rev. Prof. F. Pieper, D.D.

*Librarian.*—Rev. Prof. E. Pardieck.

Staff of 8 Professors.

AFFILIATED INSTITUTIONS.

Eight preparatory colleges at Fort Wayne, Ind.; Milwaukee, Wis.; St. Paul, Minn.; Concordia, Mo.; Bronxville, N.Y.; Winfield, Kans.; Conover, N. Carolina.; Oakland, Cal.

**THE MISSOURI BOTANICAL GARDEN**, St. Louis, Mo.

Missouri Botanical Garden, founded by Henry Shaw. Extensive indoor and outdoor collections of about 11,000 plants.

OFFICIALS.

*Director.*—G. T. Moore.

E. A. Burt, *Mycologist*.

B. M. Duggar, *Physiologist in charge of*  
*Graduate Laboratory.*

H. Von Schrenk, *Pathologist*.

J. M. Greenman, *Curator of Herbarium*.

G. H. Pring, *Floriculturist*.

**Library.**—82,526 books, 832,526 herbarium specimens. Laboratories for graduate work in botany. *Librarian:* E. A. Burt.

**ST. LOUIS OBSERVATORY.** See **ST. HELIER**.

**ST. MICHAEL'S COLLEGE.** See **TORONTO**.

**ST. PAUL (Minnesota).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—R. W. Thatcher.

**ST. PAUL'S COLLEGE.** See **CALCUTTA**.

**ST. STEPHEN'S COLLEGE.** See **DELHI**.

**SANATAM DHARAM COLLEGE.** See **LAHORE**.

**SAN JOSE (California).**

**COLLEGE OF THE PACIFIC**, San Jose, California. (1851.)

*Terms:* Two per year.

*Students:* 410.

OFFICIALS.

*President.*—Tully Cleo Knoles, A.M., D.D.

*Dean.*—A. M. Kline, Ph.D.

*Registrar.*—C. E. Corbin, A.M.

Degrees conferred.—A.B., B.M.

PROFESSORS.

**COLLEGE OF LIBERAL ARTS.**

**Professors:**

A. M. Kline, *History and Political Science*.

J. W. Harris, *Education*.

C. M. Cox (Miss), *German*.

H. B. Schwartz, *English*.

A. Bonner, *Philosophy*.

F. L. Farley, *Ancient Languages*.

E. K. Owen (Mrs.), *Economics*.

S. Rykoff (Miss), *Spanish*.

W. Schwartz, *French*.

**COLLEGE OF SCIENCE.**

**Professors:**

L. S. Kroeck, *Biology*.

S. R. Cook, *Mathematics, Physics, and Astronomy*.

R. Neal, *Chemistry and Geology*.

C. E. Corbin, *Engineering and Applied Mathematics*.

3 Instructors and 2 Teaching Fellows.

**CONSERVATORY OF MUSIC.**

**Professors:**

H. H. Hanson, *Theory and Composition*.

C. M. Dennis, *Public School Music*.

12 Assistants.

**Post-Graduate Courses.**—In Music and Expression.

**Library.**—The original library was destroyed by fire in 1914. The present library contains about 8,000 volumes.

**Institute.**—A well-equipped observatory.

**AFFILIATED INSTITUTE.**  
Conservatory of Music, San Jose.

### **SANTA CLARA (California).**

**OBSERVATORY OF SANTA CLARA,** Santa Clara, California.

*Director.*—J. I. Ricard.

The Observatory of Santa Clara deals in Astronomy, Meteorology, and Seismology. Established 1900. Publishes daily and monthly forecasts of the weather, also an occasional Seismological Bulletin.

Main object of the Observatory has been "Relation of Sun-spots to Weather." Remarkable discoveries have been published in Observatory Magazine called "Sun-spot."

### **SANTA FE (New Mexico).**

**SCHOOL OF AMERICAN RESEARCH,** Santa Fe, New Mexico.

*Budget :* \$28,000.

**OFFICIALS.**

*Director.*—E. L. Hewett.

*Acting Director.*—P. A. F. Walter.

8 Associates.

**Libraries.**—

The Finck Linguistic Library.

Library of the New Mexico Historical Society.

Archeological and Anthropological Library.

**Institute and Society.**—

Santa Fe Society of the Archeological Institute of America.

New Mexico Archeological Society.

**AFFILIATED INSTITUTIONS.**

Museum of New Mexico, Santa Fe, N.M.

The San Diego Museum, San Diego, California.

### **SASKATOON (Canada).**

**UNIVERSITY OF SASKATOON,** Saskatoon, Canada. (1907.)

*Terms :* Two per year.

*Students :* 480.

*Budget :* For current expenses, \$290,000.

**OFFICIALS.**

*Chancellor.*—Sir F. W. G. Haultain, LL.D.

*President.*—W. C. Murray, LL.D.

*Registrar.*—A. R. Weir, B.A.<sup>1</sup>

**Degrees conferred.**—B.A., white; B.Sc., slate blue; B.S. (Agr.), light blue; B.E. (Engin.), maroon; B.Acc. (Accounting), silver grey; B.S.P. (Phar.), brown; LL.B., gold.

**FACULTIES OR DEPARTMENTS.**

*Dean of the Faculty of Arts and Science.*—G. H. Ling, Ph.D.

*Dean of the Faculty of Agriculture.*—W. J. Rutherford, B.S.A.

*Acting Dean of the Faculty of Law.*—A. Moxon, B.C.L.

*Acting Dean of the Faculty of Engineering.*—C. J. Mackenzie, M.C.E.

*Professor in Charge of the School of Pharmacy.*—A. Campbell.

*Professor in Charge of the School of Accounting.*—J. Neilson.

## PROFESSORS.

## FACULTY OF ARTS AND SCIENCES.

## Professors :

W. P. Thompson, *Biology*.  
J. S. Dexter  
R. D. MacLaurin, *Chemistry*.  
T. Thowaldson  
W. W. Swanson, *Economics*.  
R. A. Wilson, *English*.  
W. D. Thomas  
A. S. Morton, *History*.  
F. H. Underhill  
W. Ramsay, *Greek*.  
W. G. Sullivan, *Latin*.  
J. A. Macdonald, *French*.  
J. W. Eaton, *German*.  
M. J. Munro, *Hebrew*.  
G. H. Ling, *Mathematics*.  
L. L. Dines  
T. N. Willing, *Natural History*.  
J. A. Sharrad, *Philosophy*.  
J. L. Hogg, *Physics*.  
J. M. Adams  
11 Lecturers.

## FACULTY OF AGRICULTURE.

## Professors :

W. J. Rutherford, *Agriculture*.  
A. M. Shaw, *Animal Husbandry*.  
H. J. Tisdale  
H. J. Tisdale

Post-Graduate Courses.—For M.A., M.Sc., and M.S.A.

Library.—25,000 volumes. Librarian: A. S. Morton. Assistant Librarian: Miss A. M. Mackay.

## AFFILIATED INSTITUTIONS.

Emmanuel College, Saskatoon.  
St. Thad's College, Regina.  
Presbyterian Theological College, Saskatoon.

SEALE HAYNE AGRICULTURAL COLLEGE. See NEWTON ABBOT.

## SERAMPORE (India).

SERAMPORE COLLEGE, Serampore, Bengal, India. (1818.)

Incorporated by Royal Charter, 1827.

Office of the College Council: 19, Furnival St., E.C.

Theological Senate operates under the Charter.

Affiliated to the University of Calcutta, in Arts.

Terms : Three a year.

Students : 351.

## OFFICIALS.

Principal and President of the Faculty.—Rev. G. Howells, M.A., B.D., B.Litt., Ph.D.  
Vice-Principal and Registrar.—Rev. John Drake, M.A., B.D.

## STAFF.

## HIGHER THEOLOGICAL DEPARTMENT.

## Professors:

G. Howells, *History of Religions and Sanskrit Religious Literature*.  
J. Drake, *Theology and Moral Philosophy*.  
S. C. Mukerji, *Church History*.  
J. N. Rawson, *Philosophy of Religion and Natural Science*.

## Professors—Continued :

P. T. Geevergese, *Syriac and the History of the Eastern Church*.  
A. C. Underwood, *Church History and New Testament Exegesis*.  
G. M. Matthews, *New Testament Greek*.  
G. H. C. Angus, *Semitic Languages and Old Testament Exegesis*.

# ARTS DEPARTMENT.

The above Professors teach in the Arts Department.

## Lecturers :

J. N. Chuckerburty, *English*.  
D. N. Ghosal, *Philosophy*.  
N. N. Mukerji, *History*.  
H. P. Sen Gupta, *Sanskrit*.

## Lecturers—Continued :

K. K. Mukerji, *Mathematics*.  
A. K. Bhattacharyya, *Sanskrit*.  
D. Banerji, *Political Economy*.  
A. K. Ghose, *English*.  
A. Chowdhuri, *History*.  
P. K. Vidyabinod, *Sanskrit*.  
H. N. Ray, *Chemistry*.  
1 Demonstrator.

**Library.**—A Library of 12,000 works with some valuable Sanskrit Catalogues, early Reviews, and other items of special interest and value.

# SHEFFIELD.

**THE UNIVERSITY OF SHEFFIELD**, Western Bank and St. George's Square, Sheffield. (1905.)

*Terms* : Three per year.

*Students* (1917-18) : 468.

## OFFICIALS.

*Chancellor.*—The Most Hon. the Marquess of Crewe, K.G.

*Pro-Chancellors.*—Col. H. K. Stephenson, D.S.O., M.P., LL.D., J.P.

*Vice-Chancellor.*—Sir W. H. Hadow Knight, M.A., D.Mus.

*Treasurer.*—D. Vickers, M.P., J.P.

*Registrar.*—W. M. Gibbons, M.A.

*Dean of the Faculty of Arts.*—Prof. Leahy, M.A.

*Dean of the Faculty of Pure Science.*—Prof. Wynne, D.Sc., F.R.S.

*Dean of the Faculty of Medicine.*—Prof. Leathes, M.A., M.B., F.R.C.S., F.R.S.

*Dean of the Faculty of Law.*—Prof. Trotter, M.A., LL.D., K.C.

*Dean of the Faculty of Engineering.*—Prof. Ripper, C.H., D.Eng., D.Sc., M.Inst. C.E., J.P.

## Degrees conferred :

### Degrees.

B.A. - - - Green stuff, lined with white fur, edged with crushed strawberry.  
B.Eng. - - - Green stuff, lined with white fur, edged with purple.  
B.Met. - - - Green stuff, lined with white fur, edged with steel grey.  
B.Sc. - - - Green stuff, lined with white fur, edged with apricot.  
M.B., Ch.B. - Green stuff, lined with white fur, edged with red.  
Ch.M. - - - Green silk, lined with red, edged with white.  
D.Eng. - - - Red silk, lined with purple.  
D.Met. - - - Red silk, lined with steel grey.  
D.Sc. - - - Red silk, lined with apricot.  
Litt.D. - - - Red silk, lined with crushed strawberry.  
LL.B. - - - Red silk, lined with pale green.  
LL.D. - - - Green silk, lined with pale green.  
M.A. - - - Green silk, lined with crushed strawberry.  
M.D. - - - Red silk, lined with red.  
M.Eng. - - - Green silk, lined with purple.  
M.Met. - - - Green silk, lined with steel grey.  
M.Sc. - - - Green silk, lined with apricot.

### Hoods.

## PROFESSORS.

### FACULTY OF ARTS.

#### Professors :

W. C. Summers, *Latin*.  
C. G. M. Smith, *English Languages and Literature*.  
A. T. Baker, *French*.  
H. W. Appleton, *Ancient and Modern History*.  
A. H. Leahy, *Mathematics*.  
J. A. Green, *Education*.  
W. Rothenstein, *Civic Art*.

#### Lecturers :

E. S. Forster, *Greek*.  
F. Whitehead (Miss), *Latin*.  
J. D. Jones, *English Language and Literature*.  
L. A. Willoughby, *German*.  
G. A. Birkett, *Russian*.  
J. N. Birch, *Spanish*.  
L. V. D. Owen, *Ancient and Modern History*.  
M. Perham (Miss), *Ancient and Modern History*.



**Lecturers—Continued :**

B. M. Laing, *Philosophy*.  
D. Knoap, *Economics*.  
T. E. Shuttleworth, *Accounting*.  
W. A. Bone (Miss), *Education*.  
E. M. A. King (Miss) „  
W. Vickers, *Education*. „  
H. Coward, *Musie*.  
W. S. Purchon, *Architecture*.  
5 Assistant Lecturers, 4 Honorary Lecturers.

**FACULTY OF PURE SCIENCE.**
**Professors :**

A. H. Leahy, *Mathematics*.  
S. R. Milner, *Physics*.  
W. P. Wynne, *Chemistry*.  
A. Denny, *Zoology*.  
J. B. Leathes, *Physiology*.  
W. G. Fearnside, *Geology*.  
J. A. Green, *Education*.

**Lecturers :**

R. S. Thompson (Engineering Department), *Mathematics*.  
L. Southern, *Physics*.  
W. E. Curtis „  
J. Kenner, *Chemistry*.  
A. S. Russell, *Physical Chemistry*.  
B. H. Bently, *Botany*.  
E. C. Eaves (Miss), *Physiology*.  
W. H. Wilcockson, *Geology*.  
J. R. Thompson, *Education*.  
E. M. A. King (Miss), *Education*.  
W. A. Bone (Miss) „  
W. Vickers, *Education*.  
R. N. R. Brown, *Geography*.  
9 Assistant Lecturers, 2 Demonstrators.

**FACULTY OF MEDICINE.**
**Professors :**

W. P. Wynne, *Chemistry*.  
S. R. Milner, *Physics*.  
A. Denny, *Biology*.  
C. J. Patton, *Anatomy*.  
J. B. Leathes, *Physiology*.  
A. J. Hall, *Medicine*.  
A. Connell, *Surgery*.  
J. S. C. Douglas, *Pathology*.  
P. E. Barber, *Midwifery*.  
H. Scurlfield, *Public Health*.

**Lecturers :**

J. Kenner, *Organic Chemistry*.  
A. S. Russell, *Physical Chemistry*.  
L. Southern, *Physics*.  
W. E. Curtis „  
L. Naish (Mrs.), *Osteology*.  
E. C. Eaves (Miss), *Physiology*.  
A. E. Barnes, *Medicine*.  
A. E. Naish „  
G. Simpson, *Surgery*.  
A. Cuff, *Surgery*.  
M. H. Phillips, *Diseases of Women*.

**Lecturers—Continued :**

A. E. Barnes, *Materia Medica, Pharmacology, and Therapeutics*.  
G. H. Pooley, *Ophthalmology*.  
G. Wilkinson, *Diseases of the Ear, Nose, and Throat*.  
E. H. Williams, *Infectious Diseases*.  
W. Vincent, *Mental Diseases*.  
H. Leader, *Diseases of Children*.  
D. G. Newton, *Vaccination*.  
6 Assistant Lecturers, 7 Demonstrators.

**FACULTY OF LAW.**
**Professors :**

W. F. Trotter, *Law*.  
H. W. Appleton, *Constitutional History*.

**Lecturers :**

O. K. Metcalfe, *Public and Common Law*.  
D. Knoap, *Economics*.  
T. E. Shuttleworth, *Accounting*.  
1 Assistant Lecturer.

**FACULTY OF ENGINEERING.**
**Professors :**

W. Ripper, *Mechanical Engineering*.  
F. E. Armstrong, *Mining Engineering*.  
L. T. O'Shea, *Applied Chemistry*.  
A. H. Leahy, *Mathematics*.  
S. R. Milner, *Physics*.  
W. P. Wynne, *Chemistry*.  
W. G. Fearnside, *Geology*.

**Lecturers :**

F. Boulden, *Mechanical Engineering*  
J. W. Kershaw „ „  
W. G. Hibbins „ „  
C. W. Waite „ „  
G. W. Burley „ „  
E. H. Crapper, *Electrical Engineering*.  
T. F. Wall „ „  
J. Husband, *Civil Engineering*.  
I. E. F. Stalham, *Mining Engineering*.  
A. E. Findley, *Applied Chemistry*.  
R. S. Thompson (Engineering Department), *Mathematics*.  
L. Southern, *Physics*.  
W. E. Curtis „  
J. Kenner, *Organic Chemistry*.  
A. S. Russell, *Physical Chemistry*.  
W. S. Purchon, *Building Construction*.  
W. E. S. Turner, *Glass Technology*.  
J. H. Davidson „ „  
S. English „ „  
1 Hon. Lecturer, 9 Assist. Lecturers.  
3 Demonstrators, 5 Research Assistants.

**FACULTY OF METALLURGY.**
**Professors :**

Vacant, *Ferrous and Non-Ferrous Metallurgy*.  
A. H. Leahy, *Mathematics*.  
S. R. Milner, *Physics*.  
W. P. Wynne, *Chemistry*.

**Lecturers :**

F. K. Knowles, *Ferrous and Non-Ferrous Metallurgy*.  
 F. Ibbotson, *Ferrous and Non-Ferrous Metallurgy*.  
 J. H. Wreaks, *Ferrous and Non-Ferrous Metallurgy*.  
 G. B. Brook, *Ferrous and Non-Ferrous Metallurgy*.

**Lecturers—Continued :**

F. C. Thompson, *Ferrous and Non-Ferrous Metallurgy*.  
 R. S. Thompson (Engineering Department), *Mathematics*.  
 L. Southern, *Physics*.  
 W. E. Curtis  
 J. Kenner, *Organic Chemistry*.  
 A. S. Russell, *Physical Chemistry*.

7 Assistant Lecturers, 4 Demonstrators.

**Post-Graduate Courses—Faculty of Arts.**—Post-Graduate Courses are held leading up to the Diploma in Education, and the Diploma in Modern Language Teaching.

**Faculty of Medicine.**—The University awards a Diploma in Public Health, and Courses for the Diploma are held.

**Degree of Doctor of Philosophy.**—The Degree of Doctor of Philosophy (Ph.D.) is awarded in the Faculty of Arts, Pure Science, Law, Engineering, and Metallurgy. This degree is awarded on Post-Graduate study and Graduates of the University of Sheffield, and other approved Universities are eligible for this degree.

**Library.**—The Edgar Allen Library, 58,000 volumes.

**Museums.**—Of Anatomy and Anthropology, Pathology, Zoology, Botany. *Curator* A. J. Hall, M.A., M.D.

University Observatory. *Curator* : A. H. Leahy, M.A.

**SIALKOT (India).**

**MURRAY COLLEGE**, Sialkot, Punjab. (1889.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 150.

**OFFICIALS.**

*Principal.*—Rev. W. Scott, M.A., B.D.

*Vice-Principal.*—J. Garrett, M.A.

10 Professors.

**SIBPUR (India).**

**THE CIVIL ENGINEERING COLLEGE**, Sibpur, Bengal. (1880.)

*Sessions* : One yearly.

*Students* : 350.

*Budget* : Rs. 2,80,000. The Funds are provided entirely by the Government of Bengal.

**OFFICIAL.**

*Principal.*—B. Heaton.

**Degrees and Hoods.**—As specified by Calcutta University.

**PROFESSORS.**

**Professors :**

T. H. Richardson, *Civil Engineering*.  
 E. H. Robertson, *Mining Engineering*.  
 B. C. Gupta, *Electrical Engineering*.  
 (Vacant), *Mechanical Engineering*.  
 A. MacDonald, *Physics and Mathematics* (Acting).

**Professors—Continued :**

S. M. Maitra, *Physics and Mathematics*.  
 W. Saunders, *Chemistry*.

**Assistant Professors :**

J. V. Frances, *Drawing*.  
 P. C. Ganguli, *Mechanical Engineering*.  
 4 Instructors, 2 Teachers, 4 Demonstrators, 1 Visiting Lecturer.

**Library.**—Contains 10,000 books. *Librarian* : W. Saunders.

**ROYAL BOTANIC GARDEN.**

Under the Government of Bengal.

Founded 1787. Extent 273 acres. Situated on the right bank of the river Hughli, about four miles south-west of Calcutta. The Eden Gardens, Dalhousie

Square Garden, and Curzon Garden in the city of Calcutta, also the Lloyd Botanic Garden in Darjeeling, and the Cinchona Plantations and Quinine Factory of the Government of Bengal, are also attached to it for administrative purposes. The Royal Botanic Garden, Calcutta, is the headquarters of the Botanical Survey of India, under which is the Industrial Section of the Indian Museum in Calcutta.

The Garden contains the largest herbarium (nearly a million sheets) and botanical library in the Indian Empire. The herbarium is particularly rich in Indian species of flowering plants, but the flora of other regions of the world is also fairly represented in it.

#### STAFF OF THE ROYAL BOTANIC GARDEN.

Sibpur, Calcutta.

*Superintendent.*—Lieut.-Colonel A. T. Gage, I.M.S., M.A., B.Sc., M.B., C.M., F.L.S., F.A.S.B.

*Acting Superintendent.*—C. C. Calder, B.Sc., B.Sc. (Agric.).

*Curator of the Herbarium.*—C. C. Calder, B.Sc., B.Sc., F.L.S.

*Curator of the Garden.*—G. T. Lane.

*Acting Curator of the Garden.*—P. V. Osborne.

#### LLOYD BOTANIC GARDEN, Darjeeling.

*Superintendent.*—Lieut.-Colonel A. T. Gage, I.M.S.

*Acting Superintendent.*—C. C. Calder, B.Sc., B.Sc. (Agric.).

*Curator.*—G. H. Cave.

#### CINCHONA PLANTATIONS.

*Superintendent.*—Lieut.-Colonel A. T. Gage, I.M.S.

*Acting Superintendent.*—C. C. Calder, B.Sc., B.Sc. (Agric.).

*Government Quinologist.*—G. E. Shaw, B.Sc., F.I.C., F.C.S.

*Assistant Quinologist.*—(Vacant.)

*Manager of Mungoo Plantation.*—P. T. Russell.

*Acting Manager of Mungoo Plantation.*—H. Thomas.

#### BOTANICAL SURVEY OF INDIA.

*Director and Officer in Charge of the Industrial Section, Indian Museum.*—Lieut.-Colonel A. T. Gage, I.M.S.

*Acting Director.*—C. C. Calder, B.Sc., B.Sc. (Agric.).

*Economic Botanist.*—H. G. Carter, M.B., Ch.B.

*Assistant Botanist.*—P. M. Debburman.

*Assistant Botanist.*—V. Narayanaswami.

#### SIMLA (India).

##### BUREAU OF EDUCATION, Simla, India.

*Educational Commissioner with the Government of India.*—The Hon. H. Sharp, C.S.I., C.I.E.

*Curator (Bureau of Education).*—G. R. Kaye.

*Assistant.*—Fazl Elahi Quraishi.

*Librarian.*—M. N. Basu.

The Library contains about 100,000 volumes.

**Publications.**—Some of the recent publications of the Bureau of Education:

Progress of Education in India, 1912-17. Seventh Quinquennial Review (2 volumes).

Annual Narratives (Indian Education, 1913-1918).

Occasional Reports, Nos. 1-8.

Pamphlets, Nos. 1-7.

##### INDIAN METEOROLOGICAL DEPARTMENT, Simla, India.

Founded in 1876 by the Government of India with the object of co-ordinating and developing the meteorological, astronomical, and magnetic work previously carried on by the Local Governments. Seismology has since been added to its activities.

## GAZETTED OFFICERS.

*Director-General of Observatories.*—G. T. Walker, C.S.I., M.A., Sc.D., F.R.S.

*Director of the Aerological Observatory, Agra.*—J. H. Field.

*Assistant Director of the Aerological Observatory, Agra.*—W. A. Harwood.

*Director of the Kodaikanal and Madras Observatories.*—J. Evershed.

*Assistant Director of the Kodaikanal and Madras Observatories.*—T. Royds.

*Director of the Bombay and Alibag Observatories.*—T. K. Chinmayanandam.

**Imperial Meteorologists.**

G. C. Simpson.

C. W. B. Normand.

Rai Bahadur Hem Raj.

**Meteorologists :**

E. P. Harrison.

H. M. Finch.

R. Ll. Jones.

**DEPARTMENTAL OBSERVATORIES AND OFFICES.**

The Central Offices are at Simla, from which a weather report for the whole of the Indian area is published daily. Provincial offices exist at Calcutta, Bombay, and Madras, from which daily weather reports relating to portions of India are issued. There are first-class observatories at Calcutta, Bombay, Madras, Kodaikanal, and Lahore; third-class observatories at 181 stations; fourth class at 23; and fifth class at 24. In addition to the above there are 38 observatories maintained at the expense of Indian States and working in conjunction with the Imperial Department; these stations regularly supply data to the head office at Simla and comprise 2 first-class observatories (Bangalore and Jaipur); 2 second class; 26 third class; 5 fourth class; and 3 fifth class observatories.

**Periodical Publications.**—

Daily, Weekly, Monthly, and Annual Weather Reports.

Magnetic and Meteorological Results (annual) of the Colaba Observatory.

**Non-Periodical Publications.**—

Indian Meteorological Memoirs.

Bulletins and Memoirs of the Kodaikanal Observatory.

**SIOUX CITY (Iowa).**

**THE ACADEMY OF SCIENCE AND LETTERS**, Public Library Building, Sioux City, Iowa. (1885.)

The Academy meets bi-monthly from October to May. The sections comprise Art, Physical Research, Municipal Research, Political Science, Ornithology, and Local History.

Publishes Proceedings.

**SITKA (Alaska).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—C. C. Georgeson.

**SMITH COLLEGE.** See **NORTHAMPTON.**

**SOUTHAMPTON.**

**UNIVERSITY COLLEGE**, Southampton. (1902.)

*Terms :* Three a year.

**OFFICIALS.**

*Principal.*—A. Hill, M.A., M.D., F.R.C.S.

*Registrar.*—D. Kiddle.

*Librarian.*—Miss B. E. Horneyer.

**PROFESSORS.****Professors :**

W. F. Mason, *Classics and English Literature.*

E. S. Lyttel, *History and Political Economy.*

**Professors—Continued :**

(Vacant), *Romance Languages.*

E. L. Watkin, *Mathematics.*

H. Stansfield, *Physics and Electrical Engineering.*

**Professors—Continued :**

D. R. Boyd, *Chemistry*.

G. K. Sutherland, *Biology and Geology*.

**Professors—Continued :**

J. Eustice, *Civil and Mechanical Engineering*.

J. Shelley, *Education*.

20 Lecturers.

**SOUTH AUSTRALIA, ROYAL SOCIETY OF.** See ADELAIDE.

**SOUTH DAKOTA SCHOOL OF MINES.** See RAPID CITY.

**SOUTH-EASTERN AGRICULTURAL COLLEGE.** See WYE.

**SOUTHERN CALIFORNIA ACADEMY OF SCIENCE.** See LOS ANGELES.

**SOUTHERN CALIFORNIA UNIVERSITY.** See LOS ANGELES.

**SOUTH HADLEY (Massachusetts).**

**MOUNT HOLYOKE COLLEGE,** South Hadley, Mass. (1837.)

*Terms :* Two semesters.

*Students :* 857.

*Budget :* \$601,061.15.

**OFFICIALS.**

*President.*—Miss M. E. Woolley, M.A., Litt.D., L.H.D., LL.D.

*Dean.*—Miss F. Purington, S.B., Litt.D.

*Registrar.*—Miss Caroline Greene, A.M.

*Assistant Registrar.*—Miss E. S. Dickinson, A.B.

*Treasurer.*—W. B. Adams.

**Degrees conferred.**—B.A., M.A., Hoods lined with pale blue, the College colour.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

C. F. Stevens (Miss), *English*.

E. C. Hinsdale (Miss), *German Language and Literature*.

M. G. Williams (Miss), *Greek Language and Literature*.

H. M. Searles (Miss), *Latin Language and Literature*.

W. C. Hammond, *Music*.

E. B. Talbot (Miss), *Philosophy*.

M. V. Young (Miss), *Romance Languages and Literatures*.

N. Neilson (Miss), *History and Political Science*.

A. Hewes (Miss), *Economics and Sociology*.

C. A. Scott, *Education*.

J. B. Dickinson (Miss), *Music*.

H. W. Narey (Miss), *Physical Education*.

J. M. Warbeke, *Philosophy*.

M. G. Cushing (Miss), *Spanish*.

M. I. Hussey (Miss), *Biblical Literature*.

A. H. Morgan (Miss), *Zoology*.

L. H. Wild (Miss), *Biblical Literature*.

**Associate Professors :**

A. P. Stevens (Miss), *German*.

H. C. Flint (Miss), *Greek*.

M. Ball (Miss), *English*.

A. L. F. Snell (Miss), *English*.

H. E. Hoag (Miss), *Latin*.

**Associate Professors—Continued :**

E. D. Ellis (Miss), *History and Political Science*.

E. Rivillé-Renssch (Miss), *French*.

I. C. Couch (Miss), *Speech*.

C. M. Galt (Miss), *Archæology*.

A. C. Harper (Miss), *English Literature*.

B. T. Putnam (Miss), *History*.

G. M. Bacon (Miss), *German*.

A. M. Tucker, *Music*.

M. S. Morriss (Miss), *History*.

M. E. Taylor (Miss), *Latin*.

G. S. Hyde (Miss), *Art*.

D. Foster (Miss), *English Literature*.

H. M. Cady (Miss), " "

F. W. Foss (Miss), *Art*.

A. P. Comstock, *Economics and Sociology*.

M. C. Waites (Miss), *Latin*.

**Assistant Professors :**

F. L. Adams (Miss), *English*.

H. Griffith (Miss), " "

R. Waterman (Miss), *Physical Education*.

**FACULTY OF SCIENCE.**

**Professors :**

S. E. Smith (Miss), *Mathematics*.

E. R. Laird (Miss), *Physics*.

M. Talbot (Miss), *Geology*.

S. P. Hayes, *Psychology*.

A. H. Turner (Miss), *Physiology*.



**Professors—Continued :**

E. P. Carr (Miss), *Chemistry*.  
A. G. Stokey (Miss), *Botany*.  
A. S. Young, (Miss), *Astronomy*.

**Associate Professors :**

E. C. Doak, (Miss), *Mathematics*.  
D. A. Hahn (Miss), *Chemistry*.  
M. A. Chase (Miss), *Physics*.  
E. N. Martin (Miss), *Mathematics*.

*Librarian* : Miss B. E. Blakely, B.A. *Assistant Librarian* : Miss F. E. Haynes, L.B.  
**Society.**—A chapter of Phi Beta Kappa Society.

**Museums.—**

Botanical Gardens. *Director* : Asa Kinnery, S.M.  
Botanical Museum. *Curator* : Miss J. S. Agard, A.M.  
Chemistry Laboratories. *Curator* : Miss E. R. Barshed, A.B.

**Associate Professors—Continued :**

L. S. Stevenson (Miss), *Chemistry*.  
A. M. Starr (Miss), *Botany*.  
M. C. Shields (Miss), *Physics*.  
Z. Wallen (Miss), *Chemistry*.

**Assistant Professor :**

O. C. Hazlett (Miss), *Mathematics*.  
3 Lecturers, 39 Instructors, 20 Assistants, and 2 Readers.

**SOUTH YARRA (Victoria).**

**MELBOURNE OBSERVATORY**, South Yarra, Victoria, Australia. (1863.)

Annual Expenditure, £3,200.

*Government Astronomer.*—J. M. Baldwin, M.A., D.Sc.

*Chief Assistant.*—C. J. Merfield.

Five professional assistants.

Astronomical, Magnetic, and Seismological Observatory under the Victorian State Government. Carries out also the testing of inspector's copies of the standard weights and measures.

The Magnetic Station is now at Toolangi, 38 miles N.E. of Melbourne.

**Library.**—10,000 volumes.

**NATIONAL HERBARIUM OF VICTORIA**, South Yarra.

**STAFF.**

*Government Botanist.*—A. J. Ewart, D.Sc., Ph.D.

*Assistants.*—J. R. Tovey, J. W. Audas.

*Attached.*—Miss E. Archer, M.Sc., Secretary to the Commonwealth Seed Improvement Committee.

Annual Maintenance, £1,200.

**Library.**—Comprises over 10,000 volumes.

The Herbarium contains a million and a half of sheets of specimens including 135,000 species. The Herbarium contains the major portion of the material on which Bentham's Flora of Australia was founded and also collections by Petiver, Banks and Solander, Robert Brown, Drummond, Sonder, Hooker, Baron F. V. Mueller, Siefer Forrest, Giles, etc.

**SPRINGFIELD (Illinois).**

**ILLINOIS STATE MUSEUM**, Springfield, Ill., U.S.A.

**OFFICIALS.**

*Chief.*—A. R. Crook, Ph.D.

*Assistant Curator.*—Miss F. Fisher.

*Custodian.*—R. Taylor.

*Budget (1919-1921):* \$26,000.

100,000 specimens, mostly geological; 600 type invertebrate fossils; several notable zoological and ethnological groups in large cases.

**Library.**—10,000 volumes.

**Publications.**—Guide-books, reports, special papers.

Repository of Illinois State Academy of Science.

**SRINAGAR (Kashmir).**

<sup>1</sup> **SRI PARATAP COLLEGE**, Srinagar, Kashmir. (1905.)

Affiliated to the University of the Punjab.

**OFFICIALS.**

*Principal.*—Pt. Quabal Kishan Shargha, B.A., F.A.U.  
*Librarian.*—Pt. A. Nath, B.A.

**PROFESSORS.**

Pt. Q. K. Shargha, <i>Philosophy.</i>	Pt. C. Narain, <i>English.</i>
Pt. R. Kanjilal, <i>Sanskrit.</i>	Pt. B. K. Madan, „
J. N. Das, <i>English.</i>	G. L. Gupta, <i>Mathematics.</i>
Pt. A. Kishan, <i>Philosophy.</i>	B. Singh, <i>Biology.</i>
L. Sunder Das, <i>Science.</i>	N. L. Manghirmalani, <i>History and</i>
Pt. Pran Nath, „	<i>Economics.</i>
Pt. G. Ram, <i>Mathematics.</i>	Pt. N. Shastri, <i>Sanskrit.</i>
M. Mohammad Ishaq, <i>Persian.</i>	2 Demonstrators.

**STANFORD UNIVERSITY (California).**

**LELAND STANFORD JUNIOR UNIVERSITY**, Stanford University, Cal. (1891.)

*Terms* : Organized on the Four-Quarter plan, the University being in continuous session except for the month of September. Three quarters constitute an Academic Year.

**Degrees conferred.**—A.B., LL.B., A.M., C.E., E.E., M.E., etc.; J.D., M.D., Ph.D.

**OFFICIALS.**

*President.*—Ray Lyman Wilbur.  
*Registrar.*—Orrin Leslie Elliott.  
*Librarian.*—George Thomas Clark.  
*Dean of Men.*—John Ezra McDowell.  
*Dean of Women.*—Harriett Bradford.  
*Chaplain.*—David Charles Gardner.

**PROFESSORS.**
**FACULTY OF ARTS.**
**Professors :**

L. E. Bassett, *English.*  
W. H. Carruth, *Comparative Literature.*  
A. B. Clark, *Education (Graphic Art).*  
W. A. Cooper, *German.*  
E. P. Cubberley, *Education.*  
H. R. Fairclough, *Latin.*  
E. Greenlaw, *English.*  
G. Hempl, *Germanic Philology.*  
O. M. Johnston, *Romanic Languages.*  
E. Krehbiel, *History.*  
A. T. Murray, *Greek.*  
K. G. Rendtorff, *German.*  
A. B. Show, *European History.*  
J. A. Smith, *Political Science.*  
H. W. Stuart, *Philosophy.*  
J. S. P. Tatlock, *English Philology.*  
L. M. Terman, *Education.*  
P. J. Treat, *History.*  
V. J. West, *Political Science.*  
M. S. Wildman, *Economics.*

**Assistant Professors :**

F. B. Garver, *Economics.*  
H. J. Hall, *English.*  
Y. Ichihashi, *Japanese History and*  
*Government.*  
C. A. Knoch (Miss), *German.*  
W. M. Proctor, *Education.*  
W. T. Root, jr., „  
T. P. Russell (Mrs.), *English.*

**Assistant Professors—Continued :**

S. S. Seward, jr., „  
E. W. Smith, *English.*  
S. A. Smith, *French.*  
C. L. Starks (Mrs.), *Education (Graphic*  
*Art).*  
H. P. Stolz, *Physical Training.*

**Associate Professors :**

C. G. Allen, *Romanic Languages.*  
W. D. Briggs, *English.*  
H. C. Brown, *Philosophy.*  
P. E. Davidson, *Education.*  
J. Elmore, *Latin.*  
A. M. Espinosa, *Romanic Languages.*  
B. O. Foster, *Latin.*  
H. D. Gray, *English.*  
E. Jones, *Economics.*  
E. W. Martin, *Greek.*  
P. A. Martin, *European History.*  
E. E. Robinson, *American History.*  
J. B. Sears, *Education.*  
24 Instructors and 4 Lecturers.

**FACULTY OF SCIENCE.**
**Professors :**

R. E. Allardice, *Mathematics.*  
F. Angell, *Psychology.*  
E. Blackwelder, *Geology.*  
H. F. Blichfeldt, *Mathematics.*  
D. H. Campbell, *Botany.*  
E. C. Franklin, *Organic Chemistry.*

**Professors—Continued:**

C. H. Gilbert, *Zoology*.  
 R. R. Goorich, *Metallurgy*.  
 R. L. Green, *Mathematics*.  
 H. Heath, *Zoology*.  
 V. L. Kellogg, *Entomology*.  
 J. Kendall, *Chemistry*.  
 L. R. Lenox, *Analytical Engineering*.  
 S. M. Parker, *Military Science and Tactics*.  
 J. G. Peirce, *Botany and Plant Physiology*.  
 G. C. Price, *Zoology*.  
 A. F. Rogers, *Mineralogy*.  
 F. Sanford, *Physics*.  
 J. P. Smith, *Pulcontology*.  
 R. E. Swain, *Chemistry*.  
 C. F. Tolman, jr., *Economic Geology*.  
 B. Willis, *Geology*.  
 S. W. Young, *Physical Chemistry*.

**Assistant Professors:**

J. G. Brown, *Physics*.  
 J. E. Coover, *Psychology*.  
 E. R. Drew, *Physics*.  
 W. K. Fisher, *Zoology*.  
 H. K. Kingsbury, *Military Science and Tactics*.  
 M. I. McCracken (Miss), *Entomology*.  
 P. A. Ross, *Physics*.  
 W. H. Sloan, *Chemistry*.  
 E. C. Starks, *Zoology*.

**Associate Professors:**

L. Abrams, *Botany*.  
 L. L. Burlingame, *Botany*.  
 W. F. Dietrich, *Metallurgy*.  
 R. W. Doane, *Entomology*.  
 J. P. Mitchell, *Chemistry*.  
 F. J. Rogers, *Physics*.  
 8 Instructors.

**SCHOOL OF ENGINEERING.**

**Professors:**

W. F. Durand, *Mechanical Engineering*.  
 W. R. Eckart, " "  
 J. C. L. Fish, *Railroad Engineering*.  
 L. M. Hoskins, *Applied Mathematics*.  
 E. P. Lesley, *Mechanical Engineering*.  
 C. D. Marx, *Civil Engineering*.  
 G. H. Marx, *Machine Design*.  
 H. C. Moreno, *Applied Mathematics*.  
 H. J. Ryan, *Electrical Engineering*.  
 S. D. Townley, *Applied Mathematics*.  
 C. B. Wing, *Structural Engineering*.

**Assistant Professors:**

C. N. Cross, *Mechanical Engineering*.  
 L. E. Cutter, " "  
 J. H. Foss, *Civil Engineering*.  
 C. Moser, " "  
 H. W. Stebbins, *Mechanical Engineering*.  
 H. W. Young, *Metallurgy*.

**Associate Professor:**

W. A. Manning, *Applied Mathematics*.  
 6 Instructors.

**SCHOOL OF MEDICINE.**

**Professors:**

A. C. Crawford, *Pharmacology*.  
 A. W. Hewlett, *Medicine*.  
 F. M. McFarland, *Histology*.  
 W. H. Manwaring, *Bacteriology and Experimental Pathology*.  
 A. W. Meyer, *Anatomy*.  
 W. Ophuls, *Pathology*.  
 E. Rixford, *Surgery*.  
 T. G. Russell, *Surgery*.  
 A. B. Spalding, *Obstetrics and Gynecology*.  
 S. Stillman, *Surgery*.

**Assistant Professors:**

E. D. Congdon, *Anatomy*.  
 C. D. Mosher, *Personal Hygiene*.  
 J. R. Slonaker, *Physiology*.  
 H. A. Stephenson, *Obstetrics and Gynecology*.  
 F. W. Weymouth, *Physiology*.  
 H. H. Yerington, *Medicine (Pediatrics)*.

**Associate Professors:**

T. Addis, *Medicine*.  
 F. E. Blaisdell, *Surgery*.  
 W. W. Boardman, *Medicine (Actinography)*.  
 J. C. Clark, *Electrical Engineering*.  
 J. F. Cowan, *Surgery*.  
 E. C. Dickson, *Medicine*.  
 L. W. Ely, *Surgery (Orthopedics)*.  
 H. K. Faber, *Medicine (Pediatrics)*.  
 C. S. Stoltenberg (Miss), *Physiology*.

**Clinical Professors:**

W. F. Cheney, *Medicine*.  
 H. P. Hill, " "  
 A. W. Hoisholt, *Medicine (Psychiatry)*.  
 A. B. McKee, *Surgery (Ophthalmology)*.  
 R. L. Rigdon, *Surgery (Genito-Urinary)*.  
 E. C. Sewall, *Surgery (Otolaryngology)*.  
 W. F. Snow, *Hygiene and Public Health*.  
 G. B. Somers, *Gynecology*.

**Assistant Clinical Professors:**

H. Barkan, *Surgery (Phththalmology)*.  
 G. Dr. F. Barnett, *Medicine*.  
 W. R. P. Clark, *Medicine (Tuberculosis)*.  
 H. W. Gibbons, *Obstetrics and Gynecology*.  
 P. K. Gilman, *Surgery*.  
 F. R. Girard, *Obstetrics and Gynecology*.  
 H. B. Graham, *Surgery (Otolaryngology)*.  
 T. G. Inman, *Medicine (Neurology)*.  
 H. Y. McNaught, *Surgery (Otolaryngology)*.  
 H. G. Mehrtens, *Medicine (Neurology)*.  
 H. R. Oliver, *Medicine (Serology)*.  
 H. Rothganger, *Surgery*.  
 M. E. Rumwell, " "  
 J. M. Wolfsohn, *Medicine (Neurology)*.

**Associate Clinical Professors :**

C. M. Cooper, *Medicine*.  
 L. Eloesser, *Surgery*.  
 W. F. Schaller, *Medicine (Neurology)*.  
 22 Clinical Instructors, 10 Lecturers,  
 7 Instructors, and 1 Assistant  
 Lecturer.

**SCHOOL OF LAW.**

J. W. Bingham, *Law*.  
 A. M. Cathcart, "  
 C. A. Huston, "  
 M. R. Kirkwood, "  
 C. G. Vernier, "  
 C. B. Whitter, "

2 Instructors, 43 Assistants in Instruction, 18 Technical Assistants.

**Libraries.—**

*Staff* : G. T. Clark, *Librarian*.  
 A. N. Hays (Miss), *Reference Librarian*.  
 L. Ophuls (Miss), *Medical Librarian* (Lane Medical Library).  
 19 Assistants.

**STATE COLLEGE (Pennsylvania).****THE PENNSYLVANIA STATE COLLEGE, Pa. (1855.)**

In number of undergraduate candidates for degrees, the Pennsylvania State College ranks foremost among institutions in the United States organized under the name of "College."

*Terms* : Two semesters and summer session.

*Students* : 2,859 (candidates for degrees) ; 1,289 (not candidates for degrees).

*Budget* (for collegiate year 1917-18):

Maintenance .. .. .	\$1,050,374.78
Land .. .. .	10,072.50
New Equipments .. .. .	8,175.04

Total .. .. .	\$1,068,622.32
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**OFFICIALS.**

*President*.—E. E. Sparks, M.A., Ph.D., LL.D.

*Dean of Men*.—A. R. Warnock, M.A.

*Dean of Women*.—Miss Margaret Knight, M.A.

*Dean of the School of Agriculture*.—R. L. Batts, M.S., D.Agri.

*Dean of the School of Liberal Arts*.—T. C. Blaisdell, Ph.D., LL.D.

*Dean of the School of Engineering*.—R. L. Sackett, C.E.

*Dean of the School of Natural Science*.—G. G. Pond, Ph.D.

*Dean of the School of Mines*.—E. S. Moore, Ph.D.

*Registrar*.—A. Howry Espenshade, M.A.

**Degrees conferred.**—B.A., M.A., B.S., M.S., C.E., E.E., M.E., E.M.

**SCHOOL OF LIBERAL ARTS.****Professors :**

J. M. Willard, *Mathematics*.  
 F. L. Pattee, *English and American Literature*.  
 E. W. Runkle, *Psychology and Ethics*.  
 I. L. Foster, *Romance Languages*.  
 H. T. Collings, *German*.  
 A. H. Espenshade, *Rhetoric*.  
 C. O. Harris, *Greek Language and Literature*.  
 J. T. Marshman, *Public Speaking*.  
 G. F. Zook, *Medieval and Modern History*.  
 J. P. Ritenour, *Health Service*.  
 D. A. Anderson, *Education*.  
 L. V. T. Simmons (Miss), *German*.  
 R. G. Bressler, *Rural Sociology*.  
 G. W. Davis, *Training of Vocational Teachers*.

**Associate Professors :**

J. H. Frizzell, *English*.  
 W. S. Dye, *English*.  
 A. L. Kocher, *Architectural Extension*.  
 W. D. Crockett, *Latin*.  
 O. F. Boucke, *Economics and Economic History*.  
 C. E. Marquardt, *German*.  
 A. E. Martin, *American History*.  
 H. Bezdek, *Physical Education*.  
 A. Rhoton, *Education*.

**Assistant Professors :**

L. M. Burrage, *French*.  
 F. W. Pierce, *German*.  
 G. K. Scott (Miss), *Industrial and Fine Arts*.  
 H. L. Ridenour, *English*.  
 W. E. Lewis, *Physical Education*.  
 J. W. Crowell, *Romance Languages*.  
 J. Tanger, *Political Science*.



**Assistant Professors—Continued:**

- H. G. Parkinson, *Rural Education*.  
 F. C. Disque, *Architectural Drawing*.  
 J. O. Knauss, *History*.  
 E. J. Hall, *English*.  
 C. W. Hasek, *German and Russian*.  
 E. M. Bowman, *Romance Languages*.

**SCHOOL OF NATURAL SCIENCE.**

**Professors:**

- G. G. Pond, *Chemistry*.  
 W. R. Ham, *Physics*.  
 F. D. Kern, *Botany*.  
 J. H. Tudor, *Mathematics*.  
 H. F. Stecker, *Mathematics*.  
 E. H. Dusham, *Entomology*.

**Associate Professors:**

- M. M. Garver, *Physics*.  
 E. R. Smith, *Mathematics*.  
 J. B. Hill, *Botany*.  
 J. E. Rowe, *Mathematics*.  
 D. C. Dunean, *Physics*.

**Assistant Professors:**

- W. J. Keith, *Organic Chemistry*.  
 E. B. Meek (Miss), *Bacteriology*.  
 G. C. Chandlee, *Qualitative Analysis*.  
 C. G. Simpson, *Mathematics*.  
 R. S. Pritchard, *Qualitative Analysis*.  
 T. W. Mason, *Chemistry*.  
 J. E. Davis, *Mathematics*.  
 T. E. Gravatt, *Mathematics*.  
 L. R. Parks, *Physical Chemistry*.  
 S. R. Parsons, *Physics*.  
 L. O. Overholts, *Botany*.  
 C. W. Robinson, *Geology*.  
 C. A. Hunter, *Bacteriology*.  
 J. A. Swindler, *Physics*.  
 J. H. Olewine, *Chemistry*.  
 J. P. Kelly, *Botany*.  
 De W. T. Keach, *Chemistry*.  
 C. P. Sousley, *Mathematics*.  
 C. H. Hadley, *Economic Entomology*.  
 C. A. Bonine, *Geology*.  
 C. G. Watson, *Physics*.  
 E. R. Wightman, „

**SCHOOL OF AGRICULTURE.**

**Professors:**

- W. Frear, *Experimental Agricultural Chemistry*.  
 H. P. Armsby, *Animal Nutrition*.  
 F. D. Gardner, *Agronomy*.  
 T. I. Mairs, *Agricultural Education*.  
 C. W. Stoddart, *Chemical Agriculture*.  
 W. H. Tomhave, *Animal Husbandry*.  
 J. A. Ferguson, *Forestry*.  
 M. S. McDowell, *Agricultural Extension*.  
 A. A. Borland, *Dairy Husbandry*.  
 S. W. Fletcher, *Horticulture*.  
 F. Rasmussen, *Dairy Husbandry*.  
 N. Schmitz, *Agronomy Extension*.  
 E. K. Hibshman, *Farm Organization Extension*.

**Professors—Continued:**

- A. W. Cowell, *Landscape Gardening*.  
 E. L. Nixon, *Plant Pathology Extension*.  
 W. S. Taylor, *Agricultural Education*.  
 H. H. Havner, *Animal Husbandry Extension*.  
 F. P. Weaver, *Farm Organization Extension*.

**Associate Professors:**

- M. B. McDonald (Miss), *Chemical Agriculture*.  
 E. L. Worthen, *Agronomy*.  
 C. R. Orton, *Plant Pathology*.  
 C. F. Noll, *Experimental Agronomy*.  
 J. W. White „  
 C. E. Myers, *Plant Breeding*. „  
 R. U. Blasingame, *Farm Machinery*.  
 J. A. Fries, *Animal Nutrition*.  
 E. L. Anthony, *Dairy Husbandry*.  
 E. L. Moffitt, *Farm Management Extension*.  
 F. T. Struck, *Agricultural Education*.  
 G. Wehrwein, *Rural Economics*.

**Assistant Professors:**

- W. H. Darst, *Agronomy*.  
 F. N. Fagan, *Pomology*.  
 W. R. Gorsham, *Agricultural Extension*.  
 G. R. Green, *Forestry*.  
 W. R. White, *Agricultural Education*.  
 J. F. Adams, *Plant Pathology*.  
 E. I. Wilde, *Floriculture*.  
 S. I. Bechdel, *Dairy Husbandry*.  
 C. R. Anderson, *Forestry*.  
 J. R. Bechtel, *Vegetable Gardening*.  
 G. S. Bulkley, *Dairy Husbandry Extension*.  
 D. E. Haley, *Chemical Agriculture*.  
 C. L. Goodling, *Farm Management*.  
 C. G. McBride, *Agricultural Extension*.  
 M. F. Grimes, *Animal Husbandry*.  
 D. S. Fox, *Agronomy*.  
 M. W. Lisse, *Chemical Agriculture*.  
 W. W. Braman (Miss), *Animal Nutrition*.  
 F. L. Bentley, *Animal Husbandry*.  
 H. C. Kandel, *Poultry Husbandry Extension*.  
 I. D. Wilson, *Animal Husbandry*.  
 L. S. Kleinschmidt, *Poultry Husbandry*.  
 P. E. Dougherty, *Animal Husbandry Extension*.

**SCHOOL OF ENGINEERING.**

**Professors:**

- E. D. Walker, *Hydraulic and Sanitary Engineering*.  
 H. Diemer, *Industrial Engineering*.  
 E. S. Moore, *Geology and Mineralogy*.  
 P. B. Breneman, *Mechanics and Materials of Construction*.  
 C. L. Kinsloe, *Electrical Engineering*.



**Professors—Continued :**

E. A. Fessenden, *Mechanical Engineering.*

A. J. Wood, *Railway Mechanical Engineering.*

**Associate Professors :**

H. B. Shattuck, *Railroad Engineering.*

C. E. Govier, *Telephone Engineering.*

E. L. Waterman, *Hydraulic and Sanitary Engineering.*

J. H. Yoder, *Engineering Extension.*

R. A. Caughey, *Civil Engineering.*

**Assistant Professors :**

R. O'Donnell, *Civil Engineering.*

D. L. Markle, *Electrical Engineering.*

G. H. Resides, *Practical Mechanics.*

F. M. Torrence, *Mechanical Engineering.*

W. H. Martin, *Mechanical Engineering.*

E. M. Broderick, *Practical Mechanics.*

C. L. Harris, *Architectural Engineering.*

N. C. Miller, *Engineering Extension.*

T. S. Patterson, *Mechanics and Materials of Construction.*

R. E. Minshall, *Civil Engineering.*

H. M. Armstrong, *Electro-Chemical Engineering.*

H. K. Kistler, *Civil Engineering.*

L. W. Whitehead, *Civil Engineering.*

P. A. Cushman, *Mechanical Engineering.*

**Post-Graduate Courses.**—For degree of M.A., M.S., C.E., E.E., M.E., E.M.

**Library.**—College Library, 71,271 books, 75,000 pamphlets. *Librarian :* E. W. Runkle, Ph.D.

**Institute of Animal Nutrition** (the only one in the United States, supported by the National Government). *Director :* H. P. Armsby, Ph.D., LL.D.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—R. L. Watts.

**STATE COLLEGE (New Mexico).**
**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—Fabian Garcia.

**STELLENBOSCH (South Africa).**
**UNIVERSITY OF STELLENBOSCH, C.P., South Africa.**

*Terms :* Two semesters per annum.

*Students :* Undergraduates, 532; Post-graduates, 61.

**OFFICIALS.**

*Chancellor.*—Rev. Prof. P. J. G. de Vos, Litt.D.

*Vice-Chancellor.*—Rev. Prof. A. Moorees, Litt.D.

*Principal.*—G. G. Cillie, M.A., Ph.D.

*Registrar.*—D. J. Ackermann, B.A.

**Degrees conferred.**—B.A., M.A., B.Sc., B.Sc. (Agric.), M.Sc., M.Sc. (Agric.), Litt.D., D.Phil., D.Sc.

**SCHOOL OF MINING.**
**Professors :**

S. B. Smith, *Mining Law.*

W. R. Chedsey, *Mining.*

**Associate Professor :**

H. B. Northrup, *Metallurgy.*

**Assistant Professor :**

B. Dudley, *Metallurgy.*

**DEPARTMENT OF MILITARY  
SCIENCE.**
**Professor :**

M. D. Welfy, *Military Science and Tactics.*

**DEPARTMENT OF HOME  
ECONOMICS.**
**Professor :**

E. P. Chace (Miss), *Home Economics.*

**Associate Professor :**

P. MacDonald (Miss), *Home Economics Extension.*

**Assistant Professor :**

L. B. Moss (Miss), *Domestic Science.*

113 Instructors, 48 Assistants, 3 Associates.

PROFESSORS.

**FACULTY OF LITERATURE AND PHILOSOPHY.**

**Professors :**

- P. Van Braam, *Latin*.  
 J. Basson, *Classics and Classical Philology*.  
 C. S. Edgar, *Greek*.  
 W. A. Joubert, *Dutch*.  
 J. J. Smith, *French and German*.  
 H. C. Notcutt, *English*.  
 W. Blommaert, *History*.  
 S. F. N. Gie, *S. A. History*.  
 N. J. Brummer, *Ethics and Politics*.  
 R. W. Wilcocks, *Logic and Psychology*.  
 7 Lecturers.

**FACULTY OF SCIENCE.**

**Professors :**

- A. B. Bartmann, *Mathematics*.  
 A. H. Mackenzie „

**Library.**—University Library. *Librarian* : Miss Chapman.

**Professors—Continued :**

- J. T. Morrison, *Applied Mathematics*.  
 W. E. Malherbe, *Physics*.  
 C. D. Merwe, *Inorganic Chemistry*.  
 B. v. d. Riet, *Organic Chemistry*.  
 D. F. du Toit, *Physical Chemistry*.  
 E. J. Goddard, *Zoology*.  
 8 Lecturers.

**FACULTY OF AGRICULTURE.**

**Professors :**

- A. I. Perold, *Viticulture and Oenology*.  
 O. S. H. Reinecke, *Pomology*.  
 J. H. Neethling, *Agricultural Botany*.  
 3 Lecturers.

**FACULTY OF EDUCATION.**

**Professors :**

- G. G. Cillic, *Education*.  
 D. A. A. Pauw, *Method*.  
 4 Lecturers.

**AFFILIATED INSTITUTIONS.**

Victoria College: founded 1881; raised to University, 1918.

**STILLWATER (Oklahoma).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—H. G. Knight.

**STORRS STATION (Connecticut).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—E. H. Jenkins.

**SUTTON BONINGTON.**

**MIDLAND AGRICULTURAL AND DAIRY COLLEGE**, Agricultural Department, Sutton Bonington. Dairy Department, Kingston-on-Soar. (1895.)

*Terms* : Three in Agriculture; two in Dairying. Also short courses.

*Students* : 80.

*Principal.*—W. Goodwin, M.Sc., Ph.D.

**LECTURERS.**

- H. M. McCreath, *Agriculture*.  
 J. Duncan, *Agriculture*.  
 C. B. Donald (Miss), *Agriculture*.  
 J. G. W. Stafford, *Dairying*.  
 E. J. Hugill (Miss) „  
 W. Goodwin, *Agricultural and Dairy Chemistry*.  
 H. T. Cranfield, *Agricultural and Dairy Chemistry*.  
 F. Knowles, *Soil Analyst*.  
 E. Holden, *Zoology*.  
 H. S. Holden, *Botany*. [teriology.  
 M. G. D. Taylor (Miss), *Dairy Bac-*

- A. Levie, *Veterinary Science and Pathogenic Bacteriology*.  
 J. S. King, *Book-keeping and Economics*.  
 D. W. Lansdown, *Engineering*.  
 I. D. Strachan (Miss), *Poultry Management*.  
 D. E. Wilkinson (Miss), *Assistant in Poultry Department*.  
 J. H. Beale, *Horticulture*.  
 H. P. Hutchinson, *Adviser in Botany*.  
 Rev. A. Thornley, *Nature Study*.  
 G. Hayes, *Apiculture*.  
 H. Nicholson (Miss), *Domestic Economy*.

## SYDNEY (New South Wales).

## THE UNIVERSITY OF SYDNEY. (1850.)

Terms : Three a year.

## OFFICIALS.

*Chancellor.*—The Hon. Sir D. Portus Cullen, K.C.M.G., M.A., LL.D., Chief Justice of N.S.W.

*Vice-Chancellor.*—The Hon. Mr. Justice D. G. Ferguson, B.A.

*Registrar.*—H. E. Barff, M.A.

*Librarian.*—J. Le Gay Brereton, M.A.

## Degrees conferred :

## Degrees.

## Hoods.

B.A. - - -	Similar to B.A. Cambridge.
M.A. - - -	Black silk lined with blue silk.
B.Sc. - - -	Black stuff edged with amber silk.
D.Sc. - - -	Scarlet cloth lined with amber silk.
B.E. - - -	Black stuff lined with light maroon silk.
M.E. - - -	Black silk lined with light maroon silk.
LL.B. - - -	Black silk edged with blue silk.
LL.D. - - -	Scarlet cloth lined with blue silk.
M.B. - - -	Black silk edged with purple silk.
M.D. - - -	Scarlet cloth lined with purple silk.
M.S. - - -	Scarlet cloth lined with French grey silk.
B.Sc. (Agric.)	Black stuff edged with green silk.
B.D.S. - - -	Black stuff edged with purple and crimson silk.
B.V.Sc. - - -	Black silk edged with amber and purple silk.
B.Sc. - - -	Black stuff edged with copper-coloured silk.
M.Ec. - - -	Black silk lined with copper-coloured silk.

## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

- T. Butler, *Latin*.  
H. S. Carslaw, *Mathematics, Pure and Applied*.  
M. W. MacCallum, *Modern Literature*.  
A. Anderson, *Logic and Mental Philosophy*.  
W. J. Woodhouse, *Greek*.  
G. A. Wood, *History*.  
A. Mackie, *Education*.  
G. Phillips, *Experimental Education*.  
R. F. Irvine, *Economics*.  
J. Murdoch, *Oriental Studies*.

## Assistant Professors :

- F. A. Todd, *Latin*.  
E. R. Holme, *English*.  
G. G. Nicholson, *French and German*.  
19 Lecturers and 5 Assistant Lecturers.

## FACULTY OF LAW.

## Professor :

Hon. J. B. Peden, *Law*.

## Readers :

- C. G. Davidson, *Conveyancing*.  
P. R. Watts, *Common Law Practice and Pleading*.  
D. S. Edwards.  
5 Lecturers.

## FACULTY OF MEDICINE.

## Professors :

- Sir T. A. Stuart, *Physiology*.  
J. T. Wilson, *Anatomy*.  
D. A. Welsh, *Pathology*.  
H. G. Chapman, *Pharmacology*.  
H. J. Marks, *Diseases of Ear, Nose, and Throat*.  
E. H. Molesworth, *Diseases of the Skin*.  
J. Foreman, *Gynecology*.  
H. R. G. Poate, *Military Surgery*.  
H. S. Stacey, *Military Administration*.  
W. G. Armstrong, *Public Health*.  
R. F. Reading, *Dentistry*. [strators.  
28 Lecturers, 7 Tutors, 19 Demon-

## FACULTY OF SCIENCE.

## Professors :

- J. A. Pollock, *Physics*.  
C. E. Fawsitt, *Chemistry*.  
S. J. Johnston, *Zoology*.  
T. W. E. David, *Geology and Physical Geography*.  
A. A. Lawson, *Botany*.  
J. Read, *Chemistry, Organic, Pure and Applied*.  
W. H. Warren, *Engineering*.  
P. N. Russell, *Mechanical Engineering*.

**Professors—Continued :**

L. Wilkinson, *Architecture*.  
W. E. Cooke, *Astronomy*.  
J. D. Stewart, *Veterinary Science*.  
R. D. Watt, *Agriculture*.

**Assistant Professors :**

O. U. Vonwiller, *Physics*.  
J. A. Schofield, *Chemistry*.  
P. N. Russell, *Electrical Engineering*.  
40 Lecturers, 22 Demonstrators.

**Museums.—**

Museum of Normal and Morbid Anatomy. *Curator* : Prof. D. A. Welsh, M.A., B.Sc., M.D., F.R.C.P.  
Macleay Museum of Natural History. *Curator* : J. Shewan.  
Nicholson Museum of Egyptian, Greek, Roman and Medieval Antiquities.  
*Curator* : Prof. W. J. Woodhouse, M.A.

**THE ROYAL SOCIETY FOR NEW SOUTH WALES, 5, Elizabeth Street North, Sydney, N.S.W.**

*Patron*.—His Excellency the Rt. Hon. Sir Ronald Craufurd Munro-Ferguson, P.C., G.C.M.G.

*Vice-Patron*.—His Excellency Sir Walter Edward Davidson, K.C.M.G.

*President*.—Prof. O. E. Fawsitt, D.Sc., Ph.D.

***Vice-Presidents*.—**

R. Greig Smith, D.Sc.

J. B. Cleland, M.D., Ch.M.

T. H. Houghton, M.Inst.C.E.

W. S. Dun.

*Hon. Treasurer*.—Prof. H. G. Chapman, M.D.

***Hon. Secretaries*.—**

R. H. Cambage, F.L.S.

J. A. Pollock, D.Sc., F.R.S.

**AUSTRALASIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,  
Royal Society's House, 5, Elizabeth Street, Sydney.**

This Society (which includes New Zealand) is much on the lines of the British Association, and was founded by Professor Liversidge, LL.D., F.R.S., and held its first meeting in Sydney in the Australian Centenary Year (1888).

Besides the usual grants to Committees the Association supported the Mawson Antarctic Expedition to the extent of a thousand pounds.

The Association works by sections, of which there are twelve.

**OFFICIALS.**

*Permanent Hon. Secretary*.—J. H. Maiden, I.S.O., F.R.S.

*President*.—Prof. T. W. Edgeworth David, C.M.G., D.S.O., D.Sc., F.R.S., Sydney.

*President-elect*.—Prof. Sir W. Baldwin Spencer, K.C.M.G., F.R.S.

***Vice-Presidents*.—**

Prof. A. Liversidge, LL.D., F.R.S.

Prof. Orme Masson, D.Sc., F.R.S.

Prof. W. H. Bragg, M.A., F.R.S.

G. H. Knibbs, C.M.G., F.R.A.S.

Richard Teece, F.I.A., F.F.A., F.S.S.

*Hon. Treasurer*.—David Carment, F.I.A., F.F.A.

**THE LOCAL SECRETARIES FOR THE VARIOUS STATES.**

J. H. Maiden, F.R.S., New South Wales.

A. D. Rivett, D.Sc. (Acting), Victoria.

Prof. W. Howchin, F.G.S., South Australia.

A. Gibb Maitland, F.G.S., Western Australia.

J. Shirley, D.Sc., Queensland.

Prof. T. Thomson Flynn, B.Sc., Tasmania.

Prof. C. Coleridge Farr, D.Sc., New Zealand.

**THE TECHNOLOGICAL MUSEUM, Harris Street, Sydney, N.S.W., Australia.**

The Sydney Technological Museum is a Government Institution to which the public can apply at any time concerning the Mineral, Vegetable, or Animal Resources of the State or Commonwealth.

## OFFICIALS.

*Curator and Economic Botanist.*—R. T. Baker, F.L.S., etc.

*Assistant Curator and Economic Chemist.*—H. G. Smith, F.C.S.

*Economic Zoologist.*—T. C. Roughly.

The scope of the work is principally:

1. To assist in every way the development of the natural resources of the State and Commonwealth by bringing together for investigation, instruction, etc., collections of our raw products, such as wool, timber, minerals, essential oils, etc.
2. To scientifically investigate these products and so ascertain the various economic purposes to which they can be put or for which they are suitable.
3. To publish these results for the benefit of the commercial world.
4. To collect and exhibit the various economic products of the world, and to gather, as far as possible, all information relating to them.
5. Lectures on the economic products are given in our Technical Colleges, Trade Schools, and various other Institutions.
6. Since its inception over 200 original papers and publications have been issued from this Institution, all bearing on the commercial development of the raw products of the State and Commonwealth.

**SYDNEY OBSERVATORY**, New South Wales, Australia. (1858.)

Astronomical and Seismological.

*Government Astronomer and Professor of Astronomy.*—W. E. Cooke.

**Principal Instruments.**—Six-inch Transit Circle, 13-inch Astrograph, 11½-inch Equatorial, Milne Seismograph.

**THE BOTANIC GARDENS**, Sydney, N.S.W. (1816.)

*Director and Government Botanist.*—J. H. Maiden, F.L.S.

The Gardens include the earliest land cultivated in Australia, on the arrival of the first fleet in 1788.

**TAIPING (Federated Malay States).**

**PERAK MUSEUM**, Taiping, Federated Malay States.

*Officer in Charge.*—I. H. N. Evans, M.A.

This Museum, with the Selangor Museum at Kuala Lumpur, is under the Director of Museums, Federated Malay States.

The Perak Museum, besides ethnographical collections, contains a good series of specimens illustrative of the minerals of the Malay States, especially tin and gold, and a representative collection for purposes of reference of minerals from other countries; zoological exhibits, chiefly mammals and birds; and examples of commercially useful agricultural and other products. The most noteworthy collections, however, as indicated above, are those of ethnographical objects.

**Publications.**—The Journal of the F.M.S. Museum.

**TEDDINGTON (Middlesex).**

**THE NATIONAL PHYSICAL LABORATORY**, Teddington, Middlesex.

The National Physical Laboratory was founded in the year 1901 at a public institution for standardising and verifying instruments, for testing materials, and for the determination of physical constants.

Prior to 1918 the property of the Laboratory was vested in the President and the Council of the Royal Society, and the Laboratory was controlled by a General Board and an Executive Committee, appointed by the President and Council of the Royal Society, and comprising representatives of the Society and of the great technical institutions. As from April 1, 1918, the responsibility for the maintenance of the National Physical Laboratory was undertaken by the Department of Scientific and Industrial Research, and the work of the Laboratory is now carried on under "Provisions for the Future Control of the National Physical Laboratory" agreed upon between the Department and the President and Council of the Royal Society.

The Laboratory comprises eight main sections: (1) Physics, (2) Electricity,



(3) Metrology, (4) Engineering, (5) Aerodynamics, (6) Metallurgy and Metallurgical Chemistry, (7) The William Froude National Tank, (8) Secretarial.

*Director*.—Professor J. E. Petavel, D.Sc., F.R.S.

See also **Department of Scientific and Industrial Research**, p. 183.

## TERRE HAUTE (Indiana).

**ROSE POLYTECHNIC INSTITUTE**, Terre Haute, Indiana. (1874.)

*Terms* : Session September to June. *Students* : Limited to 200.

### OFFICIALS.

*Acting President*.—John White, Ph.D.

*Vice-President*.—(Vacant.)

*Secretary*.—J. B. Peddle, M.E.

### Degrees conferred.—

Bachelor of Science, in Mechanical, Electrical, Civil, Architectural, and Chemical Engineering.

Master of Science Degree granted for one year of satisfactory resident post-graduate study, or two years in absentia under direction of Institute Faculty. Formal graduate courses are not offered in general.

Degree of Engineer in different branches named above conferred on professional record.

### PROFESSORS.

#### Professors :

J. White, *Chemistry*.

F. C. Wagner, *Mechanical and Electrical Engineering*.

J. A. Wickersham, *Languages*.

A. S. Hathaway, *Mathematics*.

J. B. Peddle, *Machine Design*.

E. S. Johonnott, *Physics*.

R. L. McCormick, *Mechanics and Structural Engineering*.

H. A. Thomas, *Hydraulics*.

C. Wischmeyer, *Shop Management*.

W. D. Weidlein, *Military Science and Tactics*.

#### Associate Professors :

C. C. Knipmeyer, *Electrical Engineering*.

A. A. Faurot, *Languages*.

H. A. Thomas, *Civil Engineering*.

C. Wischmeyer, *Machine Design*.

A. T. Child, *Chemistry*.

#### Assistant Professors :

O. L. Stock, *Drawing and Architectural Design*.

R. R. Sellers, *Mathematics*.

5 Instructors, and a Director of Athletics.

**Post-Graduate Courses**.—Not formally offered.

**Library**.—16,000 volumes, 3,500 pamphlets. *Librarian* : A. A. Faurot. *Assistant Librarian* : Mrs. E. McCullough.

## TORONTO (Canada).

**UNIVERSITY OF TORONTO**, Canada. (1827.)

*Terms* : Two per year.

*Students* (1918-19) : 3,356.

*Budget* (1918-19) : \$1,200,584.

### OFFICIALS.

*Chancellor*.—The Hon. Sir W. R. Meredith, LL.D.

*President*.—Sir R. A. Falconer, K.C.M.G., D.Litt., M.A., LL.D.

*Registrar*.—J. Brebner, B.A.

*Bursar*.—F. A. Moure.

**Degrees conferred**.—B.A., M.B., B.Sc. (Med.), B.A.Sc., B.Pæd., B.Sc.F., Mus. Bac., LL.B., D.D.S., Phm.B., B.V.Sc., B.S.A., LL.D. (Honorary), M.A., M.A.Sc., Ph.D., M.D., C.E., M.E., Chem.E., D.Pæd., F.E., Mus.Doc. LL.M., D.V.S.

### PROFESSORS.

#### FACULTY OF ARTS.

Members of the Staff of the University,  
University College, Victoria College,

Trinity College, and St. Michael's College<sup>o</sup>  
are indicated by (U), (C), (V), (T), and  
(M), respectively.

## Professors :

- W. J. Alexander (C), *English*.  
 A. Baker (U), *Mathematics*.  
 A. J. Bell (V), *Comparative Philology*.  
 B. A. Bensley (U), *Zoology*.  
 G. S. Brett (U), *Philosophy*; (T) *Ethics*.  
 M. A. Buchanan (U), *Italian and Spanish*.  
 J. H. Cameron (C), *French*.  
 Rev. H. Carr (M), *Greek and the History of Philosophy*.  
 A. Carruthers (C), *Greek Literature and Archeology*.  
 C. A. Chant (U), *Astrophysics*.  
 A. P. Coleman (U), *Geology*.  
 Rev. F. H. Cosgrave (T), *Hebrew*.  
 J. A. Craig (C), *Oriental Languages*.  
 C. T. Currelly (U), *History of Industrial Art*.  
 Rev. D. Cushing (M), *Cosmology*.  
 J. C. De Lucy (U), *Mathematics*.  
 N. W. De Witt (V), *Latin Literature*.  
 M. De Wulf (M), *Medieval Philosophy*.  
 Rev. H. T. F. Duckworth (T), *Ancient History*.  
 O. P. Edgar (V), *English*.  
 J. H. Faull (U), *Botany*.  
 J. C. Fields (U), *Mathematics*.  
 H. E. Ford (V), *French*.  
 S. H. Hooke (V), *Oriental Languages and Literature*.  
 L. E. Horning (V), *Teutonic Philology*.  
 J. G. Hume (U), *History of Philosophy*.  
 M. Hutton (C), *Greek*.  
 W. P. McC. Kennedy (M), *English*.  
 D. R. Keys (C), *Anglo-Saxon*.  
 W. A. Kirkwood (T), *Latin*.  
 R. E. L. Kittredge (T), *French*.  
 W. B. Lane (V), *Ethics*.  
 A. E. Lang (V), *German Language and Literature*.  
 W. R. Lang (U), *Chemistry*.  
 A. L. Langford (V), *Greek Language and Literature*.  
 W. J. Loudon (U), *Mechanics*.  
 Rev. R. McBrady (M), *Latin and French*.  
 Rev. E. J. McCorkell (M), *Social Ethics*.  
 M. A. Mackenzie (U), *Mathematics*.  
 Rev. J. F. McLaughlin (V), *Oriental Languages and Literature*.  
 J. G. McLennan (U), *Physics*.  
 J. J. R. Macleod (U), *Physiology*.  
 J. P. McMurrich (U), *Chemistry*.  
 J. Mavor (U), *Political Economy*.  
 Rev. F. D. Meader (M), *Ethics*.  
 W. L. Miller (U), *Chemistry*.  
 W. S. Milner (C), *Greek and Roman History*.  
 G. H. Needler (C), *German*.  
 Rev. M. J. Oliver (M), *Psychology*.  
 W. A. Parks (U), *Paleontology*.  
 E. T. Owen (T), *Greek*.

## Professors—Continued :

- Rev. F. G. Powell (M), *Philosophy*.  
 Rev. J. J. Purcell (M), *Metaphysics*.  
 J. C. Robertson (V), *Greek Language and Philosophy*.  
 T. B. Robertson (U), *Biochemistry*.  
 J. E. Shaw (U), *Italian and Spanish*.  
 H. C. Simpson (T), *English*.  
 W. R. Taylor (C), *Oriental Languages*.  
 F. Tracy (C), *Ethics*.  
 T. L. Walker (U), *Mineralogy*.  
 M. W. Wallace (C), *English*.  
 J. S. Will (C), *French*.  
 G. McK. Wrong (U), *History and Ethnology*.  
 A. H. Young (T), *German*.

## Associate Professors :

- A. H. Abbott (U), *Philosophy*.  
 F. B. Allan (U), *Chemistry*.  
 V. de Beaumont (V), *French Language and Literature*.  
 E. F. Burton (U), *Physics*.  
 C. E. Anger (V), *English*.  
 S. E. de Champ (C), *French*.  
 B. Fairley (C), *German*.  
 O. D. Howe (U), *Botany*.  
 A. G. Huntsman (U), *Marine Biology*.  
 F. B. Kenrick (U), *Chemistry*.  
 Rev. E. J. McCorkell (M), *English*.  
 R. M. MacIver (U), *Political Economy*.  
 Rev. J. T. Muckle (M), *Greek*.  
 Rev. M. J. Oliver (M), *German*.  
 W. H. Piersol (U), *History*.  
 Rev. F. G. Powell (M), *Latin*.  
 C. B. Sissons (V), *Ancient History*.  
 W. G. Smith (U), *Psychology*.  
 R. B. Thomson (U), *Botany*.  
 E. M. Walker (U), *Biology*.

## Assistant Professors :

- S. Beatty (U), *Mathematics*.  
 W. H. Clawson (C), *English*.  
 S. A. Cudmore (U), *Political Economy*.  
 E. A. Dale (C), *Latin*.  
 L. Gilchrist (U), *Physics*.  
 F. A. Hartman (U), *Physiology*.  
 W. Jackman (U), *Political Economy*.  
 A. L. Parsons (U), *Mineralogy*.  
 T. R. Robinson (U), *Philosophy*.  
 L. J. Rogers (U), *Chemistry*.  
 J. Satterley (U), *Physics*.  
 G. M. Smith (U), *History*.  
 G. O. Smith (C), *Latin*.  
 P. Toews (C), *German*.  
 H. Wasteneys (U), *Biochemistry*.  
 J. H. White (U), *Botany*.  
 R. H. Williams (U), *History*.

## FACULTY OF MEDICINE.

## Professors :

- J. A. Amyot, *Hygiene*.  
 N. H. Beemer, *Mental Diseases*.  
 G. H. Burnham, *Ophthalmology and Otology*.

**Professors—Continued :**

- I. H. Cameron, *Surgery and Clinical Surgery.*
- C. K. Clarke, *Psychiatry.*
- W. H. Ellis, *Toxicology.*
- S. M. MacCallum, *Ophthalmology.*
- J. J. Mackenzie, *Pathology and Bacteriology.*
- A. McPhedran, *Medicine and Clinical Medicine.*
- N. A. Powell, *Medical Jurisprudence.*
- A. Primrose, *Clinical Surgery.*
- R. D. Rudolf, *Therapeutics.*
- B. P. Watson, *Obstetrics and Gynecology.*
- D. J. G. Wishart, *Oto-Laryngology.*

**Associate Professors :**

- H. B. Anderson, *Clinical Medicine.*
- A. M. Baines, *Clinical Medicine and Pediatrics.*
- G. A. Bingham, *Clinical Surgery and Clinical Anatomy.*
- H. A. Bruce, *Clinical Surgery.*
- G. Chambers, *Clinical Medicine.*
- R. J. Dwyer                   "                   "
- J. Ferguson                   "                   "
- J. G. Fitzgerald, *Hygiene.*
- J. T. Fotheringham, *Medicine and Clinical Medicine.*
- W. Goldie, *Clinical Medicine.*
- S. M. Hay, *Surgery.*
- A. A. Macdonald, *Obstetrics and Gynecology.*
- H. T. Machell, *Obstetrics and Pediatrics.*
- F. W. Marlow, *Gynecology.*
- K. C. Mellraith, *Obstetrics.*
- P. W. McKeown, *Clinical Surgery.*
- A. McPhedran, *Medicine and Clinical Medicine.*
- W. H. Piersol, *Histology and Embryology.*
- C. L. Starr, *Clinical Surgery.*
- F. N. G. Starr, *Clinical Surgery.*
- W. B. Thistles, *Clinical Medicine.*

**Assistant Professor :**

- J. C. Watt, *Anatomy.*
- 16 Associates, 6 Lecturers, and 133 other appointments.

**FACULTY OF APPLIED SCIENCE AND ENGINEERING.**

**Professors :**

- R. W. Angus, *Mechanical Engineering.*
- J. W. Bain, *Chemical Engineering.*
- W. H. Ellis, *Applied Chemistry.*
- G. A. Guess, *Metallurgy.*
- H. E. T. Haultain, *Mining Engineering.*
- J. McGowan, *Applied Mechanics.*

**Post-Graduate Courses.**—Leading to M.A., Ph.D., M.D., also in Engineering, Forestry, Music, Law, Pedagogy, Veterinary Science.

**Library.**—University Library (1917-18) contains 151,799 bound volumes and

**Professors—Continued :**

- T. R. Rosebrugh, *Electrical Engineering.*
- L. B. Stewart, *Surveying and Geodesy.*
- C. H. C. Wright, *Architecture.*

**Associate Professors :**

- G. R. Anderson, *Physics.*
- M. C. Boswell, *Organic Chemistry.*
- J. R. Cockburn, *Descriptive Geometry.*
- P. Gillespie, *Applied Mechanics.*
- H. W. Price, *Electrical Engineering.*

**Assistant Professors :**

- E. G. R. Ardagh, *Applied Chemistry.*
- L. M. Arkley, *Mechanical Engineering.*
- A. T. Laing, *Applied Mechanics.*
- T. R. Loudon, *Ferro-Metallurgy.*
- A. W. McConnell, *Architecture.*
- W. M. Treadgold, *Surveying.*
- C. R. Young, *Structural Engineering.*
- 2 Lecturers and 31 other appointments.

**FACULTY OF EDUCATION.**

**Professor :**

- H. J. Crawford, *Education.*

**Associate Professor :**

- P. Sandiford, *Education.*

**Assistant Professors :**

- F. E. Coombs, *Methods in Elementary Subjects.*
- G. A. Cornish, *Methods in Science.*
- J. T. Crawford, *Methods in Mathematics.*
- W. C. Ferguson, *Methods in French and German.*
- J. M. Jones, *Methods in English.*
- 19 Instructors and 3 Lecturers.

**FACULTY OF FORESTRY.**

**Professor :**

- B. E. Fernow, *Forestry.*

**Associate Professor :**

- C. D. Howe, *Forestry.*

**Assistant Professors :**

- W. N. Millar, *Forestry.*
- J. H. White, *Forestry.*

**FACULTY OF MUSIC.**

**Professor :**

- A. S. Vogt, *Dean.*
- 4 Lecturers.

**DEPARTMENT OF HOUSEHOLD SCIENCE.**

**Associate Professors :**

- C. C. Benson (Miss), *Physiological Chemistry.*
- A. L. Laird (Miss), *Household Science.*
- 3 Lecturers, 8 other appointments.

50,926 pamphlets. Victoria, Trinity, and St. Michael's Colleges also have local college libraries. *Librarian*: H. H. Langton, M.A.

**Museum.**—Royal Ontario Museum.

### FEDERATED INSTITUTIONS.

Victoria University (Toronto); Trinity University (Toronto); St. Michael's College (Toronto); Kiwn College, Wycliffe College.

### AFFILIATED INSTITUTIONS.

Ontario Agricultural College, Royal College of Dental Surgeons, Ontario Veterinary College, Ontario College of Pharmacy, Albert College, Columbian Methodist College, Alma College, St. Hilda's College (Western Canada).

### VICTORIA UNIVERSITY, Queen's Park, Toronto. (1836.)

Victoria University for 56 years was located in Cobourg, Ont.—*i.e.*, from 1836 to 1892—and carried on its work in the Faculties of Arts, Medicine, Law, and Theology, as an independent institution. In 1890 Victoria University entered into Federation with the University of Toronto, and in 1892 began work as an Arts College in that institution—the Theological Faculty remaining independent, and the Faculties of Medicine and Law were merged in the corresponding Faculties of the University of Toronto.

*Terms*: Two per year.

*Students* (1919-20): 525.

*Budget*:

Assets (July 31, 1919) .. ..	\$1,934,749.86.
Expenditure (July 31, 1919) .. ..	143,268.26.

### OFFICIALS.

*Chancellor and President.*—Rev. R. P. Bowles, M.A., D.D., LL.D.

*Vice-Chancellor.*—Hon. Mr. Justice Maclaren, M.A., LL.D.

*Dean of the Faculty of Arts.*—Professor J. L. Robertson, M.A.

*Dean of the Faculty of Theology.*—Rev. Professor F. H. Wallace, M.A., D.D.

*Registrar.*—A. L. Langford, M.A.

*Bursar.*—Rev. W. C. B. Caswell, B.A.

**Degrees conferred.**—B.D. and D.D. (Honorary)—B.D., Black alpaca, lined with purple silk and trimmed with ermine; D.D., scarlet broadcloth, lined with purple silk.

### PROFESSORS.

#### FACULTY OF ARTS.

See **UNIVERSITY OF TORONTO.**

#### FACULTY OF THEOLOGY.

##### Professors:

Rev. F. H. Wallace, *New Testament Exegesis and Literature.*

Rev. J. F. McLaughlin, *Old Testament Exegesis and Literature.*

Rev. R. P. Bowles, *Systematic and Historical Theology.*

W. B. Lane, *Ethics and Didactics.*

W. H. Greaves, *Public Speaking.*

Rev. J. W. Macmillan, *Sociology.*

##### Associate Professors:

Rev. J. H. Michael, *New Testament Exegesis.*

Rev. A. J. Johnston, *Homiletics and Pastoral Theology and Church History.*

Rev. F. W. Langford, *Religious Pedagogy.*

Rev. W. A. Potter, *Old Testament Exegesis and Literature.*

W. T. Brown, *Ethics and Apologetics.*

4 Lecturers.

**Post-Graduate Courses.**—The B.D. Course is a post-graduate course, a degree in Arts being necessary in order to secure a B.D.

The Arts Faculty is a part of the University of Toronto Graduate Faculty, and does work in that Faculty.

**Library.**—The Birge-Carnegie. *Librarian*: A. E. Lang, M.A.

**Museum.**—All museum material is now loaned to the Royal Ontario Museum.

### AFFILIATED INSTITUTIONS.

Albert College, Belleville, Ont.

Ontario Ladies' College, Whitby, Ont.

Alma College, St. Thomas, Ont.

Columbia College, New Westminster, B.C.



**ST. MICHAEL'S COLLEGE, Toronto, Canada. (1852.)**

The work of the University of Toronto is divided into seven parts, called faculties—for example, the Faculty of Medicine. St. Michael's College is connected with one of these faculties—the Faculty of Arts. The work of this faculty is carried on through four colleges, of which St. Michael's College is one. All four are on an equal standing except financially. University College is non-denominational, and is supported by University funds. The other three represent the interests of the Methodists, Catholics, and Anglicans respectively. Common affairs, such as examinations, are under common control; college matters, such as discipline, are regulated by individual colleges. The Colleges do not confer degrees; there is one degree for all. A student is said to be attending the University of Toronto, registered in the Faculty of Arts, and enrolled in St. Michael's College.

*Terms* : Two per year.

*Students* (Undergraduates) : 187.

**OFFICIALS.**

*Superior*.—Very Rev. H. Carr, C.S.B.

*Assistant Superior*.—Rev. F. G. Powell, C.S.B.

*Registrar*.—Rev. F. D. Meader, C.S.B.

**PROFESSORS.****Professors :**

Very Rev. H. Carr, *Greek, and History of Phil.*

Rev. F. G. Powell, *Logic and Metaphysics.*

Rev. F. D. Meader, *Ethics and Religious Knowledge.*

Rev. D. Cushing, *Cosmology.*

Rev. R. McBrady, *Latin and Greek.*

Rev. J. E. Pagean, *French.*

Rev. V. J. Murphy, *Latin.*

Rev. M. J. Oliver, *Psychology.*

**Professors—Continued :**

Rev. W. H. Murray, *French.*

Rev. E. J. McCorkell, *Social Ethics.*

W. P. M. Kennedy, *English.*

M. De Wulf, *Medieval Philosophy.*

Sir Bertram C. A. Windle, *Anthropology.*

**Associate Professors :**

Rev. F. G. Powell, *Latin.*

Rev. E. J. McCorkell, *English.*

Rev. M. J. Oliver, *German.*

Rev. H. S. Bellisle, *Logic.*

10 Lecturers.

**AFFILIATED INSTITUTES.**

Women students receive instruction at St. Joseph's College, and Loretto Abbey College.

**ONTARIO VETERINARY COLLEGE, Toronto, Canada. (1862.)**

*Terms* : Two per year.

*Students* : 78.

**OFFICIAL.**

*President*.—R. A. Falconer, K.C.M.G., D.Litt., LL.D. (University of Toronto).

*Principal*.—C. D. McGilvray, M.V.S.

*Degrees conferred*.—By the University of Toronto.

**PROFESSORS.****Professors :**

E. A. A. Grange, *Veterinary Hygiene.*

C. D. McGilvray, *Contagious Diseases, Special Therapeutics.*

J. N. Pringle, *Sporadic Diseases and Dentistry.*

R. D. McIntosh, *Obstetrics.*

D. R. Caley, *Surgery, Surgical Therapeutics, Restraint.*

J. A. Campbell, *Canine and Feline Diseases.*

H. D. Nelson, *Anatomy, Veterinary Physiology.*

R. Gwatken, *Bacteriology, Milk Hygiene.*

H. E. Batt, *Histology, Laboratory Pathology.*

**Professors—Continued :**

C. H. Weaver, *Meat Inspection.*

D. K. Smith, *Pathology.* [ology.

E. A. McCulloch, *Pathology, Parasit-*

L. T. Addison, *Zoology, Embryology, Histology.*

P. L. Scott, *Pharmacy.*

C. A. Temple, *Materia Medica.*

R. K. Flemming, *Animal Husbandry.*

J. J. R. MacLeod (T), *Physiology.*

J. Hunter (T), *Biochemistry.*

R. B. Thomson (T), *Botany.*

E. F. Burton (T), *Physics.*

F. B. Allan (T), *Chemistry.*

D. W. Saunders, *Jurisprudence.*

J. Brown, *Economics.*

F. H. Kirkpatrick, *Public Speaking.*



**Post-Graduate Courses.**—No special post-graduate courses, as the final years' work is specially designed to meet the requirements of those desiring such a course, and to specialize in any branches they may select.

**Library.**—The Library is well supplied with books and journals relating to Medical and Veterinary Science.

**Museum.**—The Museum contains a large collection of Anatomical Specimens, both normal and pathological.

# WYCLIFFE COLLEGE, Toronto, Canada. (1877.)

*Terms* : Two a year.

*Students* : 112.

The College is a Theological College only, the students take their Arts Course at the University of Toronto, and their Divinity at Wycliffe.

## OFFICIALS.

*President.*—N. W. Hoyles Esq., B.A., K.C., LL.D.

*Principal.*—The Rev. Canon T. R. O'Meara, LL.D.

*Hon. Treasurer.*—F. C. Jarvis.

## Degrees and Hoods.—

*Diploma* : Hood of Oxford shape, made of black stuff lined with dark blue silk, with an edging on the outside one half-inch wide of dark blue silk, and with a narrow white silk braid one inch from the edge.

*Licentiate in Theology* : Hood of black stuff lined with blue silk, with a white cord near the edge, after the manner in use in the University of Toronto.

*Doctor of Divinity* : Hood of red stuff with red silk lining and edged with white silk cord. The shape shall be that in use in the University of Cambridge.

There are 6 Professors and 2 Lecturers.

**Post-Graduate Courses.**—B.D. and D.D. degrees in Divinity under the General Synod of the Church of England in Canada.

*Librarian* : Professor McIntyre, M.A., B.D.

# McMASTER UNIVERSITY, Toronto, Canada. (1887.)

*Terms* : Two per year. *Students* : Normally about 250; 175 in war-time.

## OFFICIALS.

*Chancellor.*—A. L. McCrimmon, M.A., LL.D.

*Registrar.*—E. J. Bengough, B.A.

## Degrees conferred :

*Degrees.*

*Hoods.*

B.A. - - White lining, white fur trimming.

B.Sc. - - Blue lining, white fur trimming.

M.A. - - Japanese red lining.

B.Th. - - Lavender lining.

B.D. - - Old gold lining.

LL.D. - - Scarlet edge and lining.

D.D. - - Purple lining.

## PROFESSORS.

### Professors :

A. L. McCrimmon, *Political Economy, Education and Sociology.*

J. H. Farmer, *New Testament and Patristic Greek.*

W. S. W. McLay, *English.*

P. S. Campbell, *Greek.*

J. Ten Broeke, *Philosophy, Psychology, Logic and Ethics.*

R. W. Smith, *Biology.*

E. M. Keirstead, *Systematic Theology and Apologetics.*

W. Findlay, *Mathematics.*

### Professors—Continued :

J. L. Gilmour, *History of Doctrine and Practical Theology.*

G. H. Campbell, *Latin.*

B. Franzen-Swedelius, *French and Spanish.*

H. F. Dawes, *Physics.*

W. S. Wallace, *History.*

P. W. Mueller, *German.*

W. O. Walker, *Chemistry.*

J. G. Brown, *Church History and Missions.*

N. H. McNairn, *Geology and Mineralogy.*

5 Lecturers.

**Post-Graduate Courses.**—M.A. and B.D.

*Librarian* : Miss E. A. McGregor, B.A.

#### AFFILIATED INSTITUTIONS.

Brandon College, Brandon, Man.; also Academic Departments, Moulton College for Girls, Toronto, and Woodstock College for Boys in Woodstock, Ont.

**THE ROYAL CANADIAN INSTITUTE**, 198, College Street, Toronto, Canada.  
(1849.)

The objects of the Institute are: To disseminate scientific knowledge, to encourage the study of the history of Canada and the investigation of its natural resources; to promote scientific research, and to further the application of science to industry. It maintains a library of scientific periodicals, and transactions of scientific societies from all parts of the world. It conducts a series of weekly lectures throughout the winter intended to keep the people in touch with the recent scientific advances, and to enlighten them on questions of public utility. It publishes Proceedings and Transactions.

#### OFFICIALS.

*President.*—Prof. J. C. Fields, Ph.D., F.R.S.

*First Vice-President.*—G. H. Loeke, M.A.

*Second Vice-President.*—Prof. D. R. Keys, M.A.

*Treasurer.*—W. B. Tindall.

*Secretary.*—Prof. H. F. Dawes, Ph.D.

*Editor.*—Prof. J. H. Faull, Ph.D.

*Librarian.*—Prof. A. G. Huntsman, M.B.

*Curator.*—H. Jewell.

**THE ROYAL ASTRONOMICAL SOCIETY OF CANADA**, 198, College Street, Toronto.  
(1890.)

#### OFFICIALS.

*Honorary President.*—O. Klotz, LL.D., D.Sc., F.R.A.S., F.R.A.S.C.

*President.*—A. F. Miller.

*First Vice-President.*—J. R. Collins.

*Second Vice-President.*—W. Bruce, J.P.

*Secretary.*—W. E. W. Jackson, M.A.

*Treasurer.*—H. W. Barker.

*Recorder.*—A. F. Hunter, M.A.

*Librarian.*—Prof. C. A. Chant.

*Curator.*—R. S. Duncan.

Centres at Ottawa, Peterborough, Hamilton, Regina, Guelph, Victoria, Montreal, and Winnipeg.

Members, 414.

**Publications.**—Journal (monthly) and Observers' Handbook (annually).

**ONTARIO HISTORICAL SOCIETY**, Toronto, Ontario, Canada.

*Secretary.*—A. F. Hunter.

Membership, 400.

It is housed in the Normal School Building, Toronto, where it has a collection of 2,294 volumes and 4,203 pamphlets, besides other historical collections. It publishes an annual historical volume of "Papers and Records," seventeen numbers of which have been published, and also an annual report of its business affairs.

#### TORTUGAS (Florida).

**THE CARNEGIE INSTITUTION, DEPARTMENT OF MARINE BIOLOGY,**

Loggerhead Key, Tortugas, Florida. (1903.)

*Director.*—Alfred G. Mayer, Princetown, N.Y.

Researches upon the physiology, ecology, and embryology of tropical marine animals; also upon problems of oceanography, the geology and biology of marine

limestones, the growth rate of corals, the reactions of tropical sea-gulls, and the mutations of island mollusks.

Temporary branch laboratories are situated at Nassau and at Andros Island (Bahamas), in Jamaica, and upon Murray Island, Torres Straits.

**TRANSSVAAL UNIVERSITY COLLEGE.** *See* **PRETORIA.**

### TRAVANCORE (South India).

**TRAINING COLLEGE FOR TEACHERS,** Thycaud, Trivandrum, Travancore, South India.

Affiliated to the University of Madras.

*Session* : July to April.

*Students* : 75.

*College Budget* : Rupees 45,200 per annum.

#### OFFICIALS.

*Principal.*—G. F. Clark, M.A., Ph.D.

*Acting Principal.*—K. Venkateswara Aiyer, B.A., L.T.

*Vice-Principal.*—S. G. Barker, B.Sc., Ph.D.

*Acting Vice-Principal.*—K. P. Ukkendan Unni Nair, M.A., L.T.

**Degrees conferred.**—As in University of Madras.

#### PROFESSORS.

K. P. U. U. Nair, *Nature Study.*

P. A. S. Aiyer, *Science.*

K. P. K. Nambiar, *Psychology.*

N. K. Iyengar, *Mathematics.*

K. C. Aiyer, *History.*

7 Lecturers.

**Post-Graduate Courses.**—The College prepares graduates for the L.T. Degree of the University of Madras.

#### Libraries.—

The College Library.

The Government Educational Bureau and Museum serves the whole State of Travancore.

**TRINITY COLLEGE.** *See* **DUBLIN.**

**TRINITY COLLEGE.** *See* **HARTFORD.**

### TROY (New York).

**RENSSELAER POLYTECHNIC INSTITUTE,** Troy, New York. (1824.)

*Terms* : Two per year.

*Students* : 980.

*Budget* : Income for year ending March 1st, 1918: \$256,500.

#### OFFICIAL.

*President and Director.*—Palmer Chamberlaine Ricketts, C.E., E.D., LL.D.

**Degrees conferred.**—C.E., M.E., E.E., Ch.E., B.S., M.C.E., M.M.E., M.E.E., M.Ch.E., M.S., Sc.D., Ph.D., D.Eng.

**Hoods.**—Cherry and white, the Institute colour with orange, the colour of the Engineer for the Engineering students, and yellow for the Bachelor of Science students.

#### PROFESSORS.

##### Professors :

P. C. Ricketts, *Mechanics.*

W. P. Mason, *Chemistry.*

C. W. Crockett, *Mathematics and Astronomy.*

W. L. Robb, *Electrical Engineering and Physics.*

E. R. Cary, *Geodesy, Road Engineering, and Topographical Drawing.*

J. M. Clarke, *Geology.*

##### Professors—Continued :

A. de Pierpont, *French Language and Literature.*

T. R. Lawson, *Rational and Technical Mechanics.*

A. M. Greene, *Mechanical Engineering.*

E. Touceda, *Metallurgy.*

E. F. Chillman, *Descriptive Geometry, Stereotomy, and Drawing.*

E. D. N. Schulte, *Electrical Engineering.*

**Professors—Continued :**

M. A. Hunter, *Electro-Chemistry*.  
 A. T. Lincoln, *Physical Chemistry*.  
 J. R. Du Preist, *Steam and Gas Engine Design*.  
 R. P. Baker, *English*.  
 W. C. Batchelor, *Physical Training and Hygiene*.  
 H. E. Popp, *Hydraulic Engineering*.  
 W. J. Williams, *Electrical Engineering and Physics*.  
 F. W. Schwartz, *Analytical Chemistry*.

**Assistant Professors :**

J. McGiffert, *Mathematics*.  
 W. W. Rousseau, *Geodesy, Road Engineering, and Engineering Botany*.  
 L. W. Clark, *Rational and Technical Mechanics*.  
 G. S. Thompson, *Rational and Technical Mechanics*.  
 G. K. Palsgrove, *Mechanical Engineering*.  
 A. L. Eno, *English*. [turers.  
 32 Instructors, 5 Assistants, 5 Lec-

**Post-Graduate Courses.**—Railroad Engineering, Highway Engineering, Hydraulic Engineering, Sanitary Engineering, Structural Engineering, Steam and Gas Engineering, Electrical Engineering, Chemical Engineering, Machine Design, Chemistry, Pure and Applied Mathematics.

**Library.**—13,000 bound volumes and 13,738 pamphlets. (Wholly works in engineering and science.) *Librarian* : H. R. Peck. *Assistant Librarian* : N. E. Paletz.

**Museums.**—Geological, Mineralogical, Mechanical and Electrical Engineering, Chemical Engineering.

**Learned Societies.**—

Rensselaer Society of Engineers, Rensselaer Technical Society.  
 Branch American Society of Civil Engineers.  
 Branch American Society of Mechanical Engineers.  
 Branch American Society of Electrical Engineers.

**TUCSON (Arizona).**

**THE CARNEGIE INSTITUTION DEPARTMENT OF BOTANICAL RESEARCH,**  
 Desert Laboratory, Tucson, Arizona. (1905.)

*Director.*—D. T. MacDougal.

*Investigatory Staff* of four members.

The chief researches of the department have been concerned with a group of connected problems in growth, respiration, photosynthesis, parasitism, water relations, and environic reactions of plants.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—D. W. Working.

**TUSKAGEE (Alabama).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—G. W. Carver.

**UKIAH (California).**

**LATITUDE OBSERVATORY OF THE INTERNATIONAL GEODETIC ASSOCIATION.**

U.S. Coast and Geodetic Survey, Ukiah, California, U.S.A.

*Astronomer in Charge.*—F. J. Neubauer, Ph.D.

**UNIONTOWN (Alabama).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—J. M. Burgess.

**URBANA (Illinois).**

**UNIVERSITY OF ILLINOIS, Urbana, Illinois. (1867.)**

(With Medical, Dental, and Pharmaceutical Departments in Chicago.)

*Terms* : First Semester, September 22nd, 1919—February 5th, 1920.  
 Second semester, February 9th—June 10th, 1920.  
 Summer session, 8 weeks.  
*Students* (1919-20): 7,157. *Budget* (1919-20): \$3,967,848.

# OFFICIALS.

*President*.—E. J. James, Ph.D., LL.D.  
*Acting President*.—D. Kinley, Ph.D., LL.D.  
*Registrar*.—C. M. McConn, A.M.  
*Secretary*.—H. E. Cunningham, A.B.  
*Comptroller*.—L. Morey, A.B., B.Mus., C.P.A.  
*Dean of the College of Liberal Arts and Sciences*.—K. C. Babcock, B.L., Ph.D., LL.D.  
*Dean of the College of Education*.—C. E. Chadsey, Ph.D.  
*Acting Dean of the College of Commerce and Business Administration*.—N. A. Westen, Ph.D.  
*Dean of the College of Engineering*.—C. R. Richards, M.E., M.M.E.  
*Dean of the College of Agriculture*.—E. Davenport, M.Agr., LL.D.  
*Dean of the College of Law*.—H. W. Ballantine, A.B., LL.B.  
*Acting Dean of the Graduate School*.—A. H. Daniels, Ph.D.  
*Dean of the College of Medicine*.—A. C. Eyeleshymer, Ph.D., M.D.  
*Dean of the College of Dentistry*.—F. B. Moorehead, M.S., D.D.S., M.D.  
*Dean of the School of Pharmacy*.—W. B. Day, Ph.G.  
*Director of the Library School*.—P. L. Windsor, Ph.B.  
*Director of the School of Music*.—J. L. Erb, F.A.G.O.  
*Dean of Men*.—T. A. Clark, B.L.  
*Dean of Women*.—Miss R. E. Campbell Mason, A.M.

*Degrees conferred*.—A.B., B.S., B.Mus., A.M., M.S., Ph.D., LL.B., J.D., B.L.S., M.Arch., A.E., C.E., E.E., E.M., M.E., M.D., D.D.S., Ph.G., Ph.C.

*Hoods*.—Lined with the official colours of the University (orange and blue), with binding or edging distinctive of the faculty to which the degree pertains, as follows: Arts and Letters, white; Philosophy, dark blue; Science, gold yellow; Law, purple; Medicine, green; Music, pink.

# PROFESSORS.

## LIBERAL ARTS AND SCIENCES.

### Professors :

S. A. Forbes, *Entomology*. [*Literature*.  
 H. J. Barton, *Latin Language and*  
 D. K. Dodge, *English Language and*  
*Literature*.  
 E. B. Greene, *History*.  
 T. A. Clark, *Rhetoric*.  
 A. H. Daniels, *Philosophy*.  
 E. J. Lake, *Art and Design*.  
 T. E. Oliver, *Romance Languages*.  
 J. W. Garner, *Political Science*.  
 E. J. Townsend, *Mathematics*.  
 W. A. Noyes, *Chemistry*.  
 G. A. Miller, *Mathematics*.  
 E. C. Hayes, *Sociology*.  
 J. Goebel, *German*.  
 B. H. Bode, *Philosophy*.  
 H. B. Ward, *Zoology*.  
 S. P. Sherman, *English*.  
 J. A. Fairlie, *Political Science*.  
 W. E. Burge, *Physiology*.  
 M. Bentley, *Psychology*.  
 W. Trelease, *Botany*.  
 C. F. Hottes, *Plant Physiology*.  
 F. L. Stevens, *Plant Pathology*.  
 J. S. Kingsley, *Zoology*.  
 C. W. Alvord, *History*.

### Professors—Continued :

W. S. Bayley, *Geology*.  
 L. M. Larson, *History*.  
 O. E. Lessing, *German*.  
 F. Smith, *Systematic Zoology*.  
 J. Stebbins, *Astronomy*.  
 K. McKenzie, *Romance Languages*.  
 W. A. Oldfather, *Classics*.  
 J. D. Fitz-Gerald, *Spanish*.  
 A. S. Pease, *Classics*.  
 C. Zeleny, *Zoology*.  
 A. H. Lybyer, *History*.  
 E. Bernbaum, *English*.  
 D. H. Carnahan, *Romance Languages*.  
 A. D. MacGillivray, *Systematic Entomology*.  
 A. T. E. Olmstead, *History*.  
 J. B. Shaw, *Mathematics*.  
 A. B. Coble, "  
 S. W. Parr, *Applied Chemistry*.  
 E. Bartow, *Sanitary Chemistry*.  
 G. F. N. Dailey, *Military Science and*  
*Tactics*.  
 G. T. Flom, *Scandinavian*.  
 T. E. Savage, *Stratigraphic Geology*.

### Associate Professors :

H. V. Canter, *Classics*.  
 D. F. McFarland, *Applied Chemistry*.



**Associate Professors—Continued :**

- H. G. Paul, *English*.  
J. M. Mathews, *Political Science*.  
R. D. Carmichael, *Mathematics*.  
W. S. Robertson, *History*.

**Assistant Professors :**

- E. C. Baldwin, *English*.  
N. C. Brooks, *German*.  
J. W. Folsom, *Entomology*.  
A. Emch, *Mathematics*.  
F. W. Scott, *English*.  
H. S. V. Jones, *English*.  
L. Bloomfield, *Comparative Philology and German*.  
V. E. Shelford, *Zoology*.  
A. R. Crathorne, *Mathematics*.  
J. Zeitlin, *English*.  
A. C. Cole, *History*.  
G. D. Beal, *Chemistry*.  
A. A. Harding, *Music*.  
H. F. Harrington, *Journalism*.  
O. Kamm, *Chemistry*.  
A. J. Kempner, *Mathematics*.  
W. B. McDougall, *Botany*.  
J. H. Reedy, *Chemistry*.  
G. E. Wahlm, *Mathematics*.  
C. H. Woolbert, *Public Speaking*.

**COLLEGE OF EDUCATION.**

**Professors :**

- H. A. Hollister, *Education*.  
G. A. Huff, *Physical Education*.  
B. R. Buckingham, *Education*.  
E. H. Cameron, *Educational Psychology*.  
I. S. Griffith, *Industrial Education*.

**Associate Professors :**

- W. S. Monroe, *Education*.  
R. F. Seybolt, „

**Assistant Professors :**

- J. L. Griffith, *Physical Education*.  
P. E. Belting, *Secondary Education*.  
J. McKinney, *Industrial Education*.

**COLLEGE OF COMMERCE.**

**Professors :**

- D. Kinley, *Economics*.  
E. R. Dewsnap, *Railway Administration*.  
E. L. Bogart, *Economics*.  
N. A. Weston „  
H. T. Scovill, *Accountancy*.  
M. H. Robinson, *Industry and Transportation*.  
S. Litman, *Economics*.

**Assistant Professors :**

- E. J. Filbey, *Accountancy*.  
L. Morey „  
M. H. Hunter, *Economics*.  
G. Watkins „  
F. A. Russell, *Business Administration*.

**COLLEGE OF ENGINEERING.**

**Professors :**

- I. O. Baker, *Civil Engineering*.  
A. N. Talbot, *Municipal and Sanitary Engineering*.  
M. Brooks, *Electrical Engineering*.  
J. McL. White, *Architectural Engineering*.  
G. A. Goodenough, *Thermodynamics*.  
H. H. Stoek, *Mining Engineering*.  
A. P. Carman, *Physics*.  
C. T. Knipp, *Experimental Electricity*.  
F. R. Watson, *Experimental Physics*.  
J. Kunz, *Mathematical Physics*.  
N. C. Curtis, *Architectural Design*.  
C. R. Richards, *Mechanical Engineering*.  
E. B. Paine, *Electrical Engineering*.  
E. W. Washburn, *Ceramic Chemistry*.  
L. H. Profine, *Architectural Engineering*.  
H. F. Moore, *Engineering Materials*.  
F. H. Newell, *Civil Engineering*.  
C. A. Ellis, *Structural Engineering*.  
O. A. Leutwiler, *Machine Design*.  
C. W. Parmelee, *Ceramic Engineering*.  
A. C. Willard, *Heating and Ventilation*.  
J. McB. Snodgrass, *Railway Mechanical Engineering*.  
M. L. Enger, *Theoretical and Applied Mechanics*.  
E. E. King, *Railway Civil Engineering*.  
J. T. Rood, *Railway Electrical Engineering*.

**Associate Professors :**

- F. B. Seely, *Theoretical and Applied Mechanics*.  
W. M. Wilson, *Structural Engineering*.

**Assistant Professors :**

- E. H. Waldo, *Electrical Engineering*.  
J. E. Smith, *Civil Engineering*.  
R. K. Hursh, *Ceramic Engineering*.  
H. H. Jordan, *Engineering Drawing*.  
V. R. Fleming, *Theoretical and Applied Mechanics*.  
H. F. Gonnerman, *Theoretical and Applied Mechanics*.  
A. P. Kratz, *Mechanical Engineering*.  
E. H. Williams, *Engineering Physics*.  
W. F. Schulz, *Physics*.  
R. Newcomb, *Architecture*.  
R. T. Jones „  
D. M. Allison „  
C. E. Palmer „  
H. W. Waterfall, *Mechanical Engineering*.  
J. B. Read, *Mining Engineering*.  
H. Z. Babbitt, *Municipal and Sanitary Engineering*.  
P. J. Kirfer, *Mechanical Engineering*.

## COLLEGE OF AGRICULTURE.

## Professors :

- E. Davenport, *Thermatology*.  
 H. W. Mumford, *Animal Husbandry*.  
 J. C. Blair, *Horticulture*.  
 W. J. Fraser, *Dairy Farming*.  
 H. S. Grindley, *Animal Nutrition*.  
 C. S. Crandall, *Pomology*.  
 J. W. Lloyd, *Olericulture*.  
 J. G. Mosier, *Soil Physics*.  
 L. H. Smith, *Plant Breeding*.  
 H. A. Harding, *Dairy Bacteriology*.  
 W. C. Coffey, *Sheep Husbandry*.  
 R. Graham, *Animal Pathology*.  
 W. L. Burlison, *Crop Production*.  
 H. B. Dorner, *Floriculture*.  
 J. L. Edmonds, *Horse Husbandry*.  
 W. F. Handschin, *Farm Organization and Management*.  
 B. S. Pickett, *Pomology*.  
 F. H. Rankin, *Agricultural Extension*.  
 J. E. Readhimer, *Soils*.  
 H. P. Rusk, *Cattle Husbandry*.  
 R. Stewart, *Soil Fertility*.  
 I. Bevier (Miss), *Home Economics*.  
 A. L. Whiting, *Soil Biology*.  
 J. A. Detlefsen, *Genetics*.

## Associate Professors :

- W. L. Gaines, *Milk Production*.  
 M. J. Prucha, *Dairy Bacteriology*.  
 J. C. Hackleman, *Farm Crops*.  
 M. Bunch (Miss), *Home Economics Extension*.  
 J. D. Bilsborrow, *Extension Service*.

## Assistant Professors :

- A. W. Nolan, *Agricultural Extension*.  
 E. W. Bailey, *Pomology*.  
 A. F. Gustafson, *Soil Physics*.  
 A. W. Jamison, *Agricultural Extension*.  
 E. V. Alstine, *Agronomy*.  
 F. N. Evans, *Landscape Gardening*.  
 H. W. Anderson, *Pomology*.  
 F. C. Bauer, *Soil Fertility*.  
 P. A. Lehenbauer, *Plant Physiology*.  
 H. H. Mitchell, *Animal Nutrition*.  
 H. A. Ruehe, *Dairy Manufacture*.  
 F. A. Wyatt, *Soil Fertility*.  
 W. H. Smith, *Animal Husbandry*.  
 G. Gusler               "               "  
 R. R. Snapp           "               "  
 F. A. Pearson, *Dairy Husbandry*.  
 E. M. Clark           "               "  
 J. G. Mackinnon, *Home Economics*.  
 W. A. Ruth, *Pomology*.

## COLLEGE OF LAW.

## Professors :

- H. W. Ballantine, *Law*.  
 O. A. Harker, *Law*.  
 F. Green,           "  
 E. H. Decker       "  
 J. N. Pomeroy     "  
 W. G. Hale        "

## LIBRARY SCHOOL.

Director.—P. L. Windsor, *Librarian*.

## Assistant Professors :

- F. Simpson, *Library Economy*.  
 F. R. Curtis (Miss), *Library Economy*.

## SCHOOL OF MUSIC.

Director.—J. L. Erb.

## Assistant Professors :

- G. F. Schwartz, *Music*.  
 A. A. Harding       "

86 Associates, 3 Lecturers, 87 Instructors, 158 Assistants, 55 Scientific Assistants, 26 Graduate Assistants, and 18 Student Assistants.

## COLLEGE OF MEDICINE.

## Professors :

- G. P. Dreyer, *Physiology and Physiological Chemistry*.  
 A. J. Ochsner, *Surgery and Clinical Surgery*.  
 C. S. Williamson, *Medicine*.  
 C. S. Bacon, *Obstetrics and Clinical Obstetrics*.  
 C. Davison, *Surgery*.  
 F. Tice, *Medicine*.  
 J. McI. Patton, *Medicine*.  
 N. H. Pierce, *Laryngology, Rhinology, and Otology*.  
 A. C. Eycleshymer, *Anatomy, Histology, and Embryology*.  
 W. McI. Harsha, *Surgery and Clinical Surgery*.  
 D. J. Davis, *Pathology and Bacteriology*.  
 J. H. Hess, *Pediatrics*.  
 A. E. Halstead, *Surgery and Clinical Surgery*.  
 H. A. McGuigan, *Pharmacology, Materia Medica, and Therapeutics*.  
 E. V. L. Brown, *Ophthalmology*.  
 H. D. Singer, *Psychiatry*.  
 C. E. Humiston, *Clinical Surgery*.

## Associate Professors :

- R. S. Yarros, *Obstetrics and Clinical Obstetrics*.  
 J. C. Beek, *Laryngology, Rhinology, and Otology*.  
 N. M. Percy, *Clinical Surgery*.  
 C. M. Jacobs, *Clinical Surgery (Orthopedic)*.  
 F. Smithies, *Medicine*.  
 E. L. Heintz, *Medicine and Clinical Medicine*.  
 M. Lewison, *Physical Diagnosis*.  
 G. F. Thompson, *Clinical Surgery*.  
 V. D. Lespinasse, *Surgery (Genito-Urinary)*.  
 A. R. Elliott, *Medicine*.  
 V. E. Emmel, *Anatomy*.

**Assistant Professors :**

- C. V. Bachele, *Obstetrics and Clinical Obstetrics*.  
 J. M. Lang, *Clinical Gynecology*.  
 F. D. Moore, *Surgery and Clinical Surgery*. [Obstetrics.  
 O. H. Rohrlack, *Obstetrics and Clinical*  
 W. H. Welker, *Physiological Chemistry*.  
 E. F. Leonard, *Neurology*.  
 R. L. Moodie, *Anatomy*.  
 C. M. McKenna, *Surgery* (Genito-Urinary).  
 B. F. Lounsbury, *Operative Surgery*.  
 H. B. Thomas, *Surgery* (Orthopedic).  
 W. C. Danforth, *Surgery*.  
 C. F. Read, *Psychiatry*.  
 H. C. Stevens, *Neurology*.  
 J. A. Cavanaugh, *Laryngology, Rhinology, and Otolary*.  
 J. R. Harger, *Surgery*.  
 K. A. Meyer, *Clinical Surgery*.  
 W. J. Woolston, *Clinical Surgery and Gynecology*.  
 R. Mosser, *Clinical Medicine*.  
 F. Chauvet, *Physical Diagnosis*.  
 H. E. Irish, *Pediatrics*.  
 C. C. Rogers, *Surgery*.  
 W. J. Crozier, *Physiology*.  
 J. E. Royer, *Neurology and Psychiatry*.  
 23 Associates, 3 Lecturers, 31 Instructors, and 20 Assistants.

**COLLEGE OF DENTISTRY.**

**Professors :**

- F. B. Moorehead, *Oral Surgery, Pathology, and Bacteriology*.

**Post-Graduate Courses (Advanced Degrees).**—A.M., M.S., Ph.D. Graduate courses

offered in Agronomy, Animal Husbandry, Architecture, Astronomy, Bacteriology, Botany, Business Organization and Operation, Ceramic Engineering, Chemistry, Civil Engineering, Classics, Comparative Philology, Dairy Husbandry, Economics, Education, Electrical Engineering, English, Entomology, Geology, German, History, Home Economics, Horticulture, Mathematics, Mechanical Engineering, Mechanics (Theoretical and Applied), Mining Engineering, Municipal and Sanitary Engineering, Philosophy, Physics, Physiology, Political Science, Psychology, Railway Engineering, Romance Languages, Sociology, Transportation, Zoology.

**Libraries.**—The University Library includes all the books belonging to the colleges and schools of the University which are situated in Urbana, and also the libraries of the College of Medicine, and the School of Pharmacy in Chicago.

The several libraries contain 444,783 volumes, 109,528 pamphlets, and 3,051 maps.  
*Librarian :* P. L. Windsor, Ph.B.

**Museums.**—

- Classical Art and Archeology. *Curator :* A. S. Pease, Ph.D.  
 European Culture. *Curator :* N. C. Brooks.  
 Oriental. *Curator :* A. T. E. Olmstead, Ph.D.  
 Natural History. *Curator :* F. C. Baker, B.S.

**AFFILIATED INSTITUTIONS.**

- |                                    |                                    |
|------------------------------------|------------------------------------|
| Agricultural Experimental Station. | State Water Survey.                |
| Engineering Experimental Station.  | State Geological Survey.           |
| Natural History Survey.            | Board of Examiners in Accountancy. |

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—E. Davenport.

**Professors—Continued :**

- D. M. Gallie, *Operative Dentistry and Operative Technics*.  
 G. W. Dittmar, *Prosthetic Dentistry and Prosthetic Technics*.  
 F. B. Noyes, *Orthodontia and Dental Histology*.  
 E. D. Coolidge, *Materia Medica and Therapeutics*.  
 A. C. Eycleshymer, *Anatomy, Histology, and Embryology*.  
 G. P. Dreyer, *Physiological Chemistry*.  
 D. J. Davis, *Pathology and Bacteriology*.

**Associate Professors :**

- L. Schultz, *Oral Surgery and Pathology*.  
 L. E. Bake, *Operative Dentistry*.  
 S. P. Starr, *Prosthetic Technics*.  
 V. E. Emmel, *Anatomy*.

**Assistant Professors :**

- W. H. Welker, *Physiological Chemistry*.  
 R. L. Moodie, *Anatomy*.  
 F. J. Bernhard, *Oral Surgery* (Extract-  
 J. C. McGuire, *Röntgenology*.  
 W. I. Williams, *Operative Dentistry*.  
 3 Associates, 1 Lecturer, 12 Instructors, and 10 Assistants.

**SCHOOL OF PHARMACY.**

**Professors :**

- W. B. Day, *Materia Medica and Botany*.  
 M. A. Miner, *Pharmacy*.

**Assistant Professors :**

- C. M. Snow, *Pharmacy*.  
 A. H. Clark, *Chemistry*.  
 1 Lecturer, 4 Instructors.

# **VALLETTA (Malta).**

**UNIVERSITY OF MALTA**, Valletta, Malta. (1592.)

(Originally as a College by Gr. Master Verdala, and in 1769 as a University by G. M. Pinto and Pope Clement IV., now governed under statute of 1915.)

The University is a Roman Catholic Institution under direct control of the Government. There are internal and external students, the latter study in recognized Institutions, or under recognized teachers. The Degrees and Diplomas are open equally to both sexes.

*Terms* : Three per year.

*Students* : 300.

*Budget* : Expenditure about £8,000; Revenue, £3,000 from fees; £1,500 from endowments; and the rest from Government subsidy, the University being a State Institution.

## **OFFICIALS.**

*Visitor*.—His Ex. the Governor in Council.—General Sir H. C. O. Plumer, G.C.B. G.C.M.G., G.C.V.O., A.D.S.

*Officer Representing the Government*.—His Hon. the Lieutenant Governor.—His Hon. W. C. F. Robertson, C.M.G.

*Rector of the University*.—The Hon. Prof. E. Magro, M.D.

*Registrar and Secretary to the General Council*.—H. P. Scicluna, L.P., F. Cannilleri, (Acting).

*Accountant and Procurator*.—V. Territile.

*Curator of Museums*.—G. Despott.

## **Degrees conferred :**

### *Degrees.*

### *Hoods*

B.Litt. - -	Black silk, lined with pink silk.
B.Sc. - -	Black silk, lined with yellow silk.
B.Eng.A. -	Black silk, lined with yellow silk, edged with green silk.
B.L.Can. -	Black silk, lined with purple silk, edged with blue silk.
LL.B. - -	Black silk, lined with blue silk.
M.B., Ch.B. -	Black silk, lined with crimson silk.
B.D. - -	Black silk, lined with purple silk.

## **PROFESSORS.**

C. Samut, *Anatomy and Histology*.  
T. Zammit, *Chemistry*. [ecture.  
R. V. Galea, *Engineering and Archi*.  
F. Debono, *Hygiene*.  
D. Fallon, *English Literature*.  
A. Bartoli, *Latin and Italian Literatures*.  
G. Caruana, *Civil Law*.  
A. Mercieca, *Commercial Law*.  
E. C. Vassallo, *Constitutional and International Laws*.  
L. A. Randon, *Criminal Law*.  
A. Cuschieri, *Logic and Philosophy*.

W. F. Nixon, *Mathematics and Practical Engineering*.  
J. L. Gatt, *Applied Mechanics*.  
C. Mifsud, *Medicine*.  
G. Debono, *Midwifery and Gynecology*.  
S. Cassar, *Surgery*.  
F. Debono, *Natural History*.  
T. Agius, *Physics*.  
G. Formosa, *Dogmatic Theology*.  
C. C. Grima, *Moral Theology*.  
8 Lecturers, 4 Assistants, and 1 Demonstrator.

## **Libraries.—**

University Reference Library, about 5,000 volumes.

Public Library, about 100,000 volumes, many MSS., and rare editions, and illuminated books.

*Librarians* : The Most Rev. Canon A. Mifsud, LL.B., Ph.D., D.D., and F. Cannilleri.

## **Museums.—**

The Archeological Museum, rich in prehistoric exhibits (local, but of the greatest importance).

The University Natural History Collections of local Fauna and Flora.

The University Fossil and Paleontological Museum (local, but also of unique importance).

Argotti Botanical Gardens.

Meteorological Observatory.

## **AFFILIATED INSTITUTIONS.**

The Archiepiscopal Seminary, Malta.  
The Seminary, Goro.

Flores's College, Malta.  
St. Aloysius College, Malta.



# VANCOUVER (British Columbia).

THE UNIVERSITY OF BRITISH COLUMBIA, Vancouver, B.C., Canada. (1915.)

*Terms* : Two a year.

*Students* (1918-19): 538.

*Budget* : (1918-19): \$274,543.

## OFFICIALS.

*Visitor*.—Sir F. S. Barnard (Lieut.-Governor of British Columbia).

*Chancellor*.—R. E. McKechnie, M.D., C.M.

*President*.—L. S. Klinek, M.S.A.

*Dean of the Faculty of Arts and Sciences*.—(Vacant.)

*Dean of the Faculty of Agriculture*.—F. M. Clement, B.S.A. (Prof. of Horticulture).

*Dean of the Faculty of Applied Science*.—R. W. Brook, M.A., F.R.S.C., (Prof. of Geology).

*Registrar*.—Stanley W. Matthews, M.A.

*Bursar*.—F. Dallas.

**Degrees conferred**.—M.A., M.Sc., B.A., B.Sc., B.S.A.

*Hoods*.—The Bachelor's Hood is of the Cambridge pattern, black bordered with the distinctive colour of the particular faculty; the Master's Hood is lined with the same colour. The colours are: for Arts, University blue; for Science, red; for Agriculture, maize.

## PROFESSORS.

### Professors :

R. W. Brock, *Geology*. (Dean of the Faculty of Applied Science.)

F. M. Clement, *Horticulture*. (Dean of the Faculty of Agriculture.)

L. S. Klinek, *Agronomy*. (President.)

G. E. Robinson, *Mathematics*.

T. H. Boggs, *Economics, Sociology, and Political Science*.

D. McIntosh, *Chemistry*.

J. A. McLean, *Animal Husbandry*.

R. H. Mullin, *Bacteriology*.

J. M. Turnbull, *Mining*.

H. N. Thomson, *Metallurgy*.

### Associate Professors :

E. H. Archibald, *Chemistry*.

H. Ashton, *French*.

A. F. Barss, *Horticulture*.

P. A. Boving, *Agronomy*.

R. H. Clark, *Chemistry*.

T. C. Hebb, *Physics*.

J. G. Davidson, *Physics*.

J. Henderson, *Philosophy*.

A. H. Hutchinson, *Botany*.

L. Killam, *Mechanical Engineering*.

A. G. Lunn, *Poultry Husbandry*.

L. F. Robertson, *Classics*.

W. Sadler, *Dairying*.

G. G. Sedgewick, *English*.

### Assistant Professors :

A. F. B. Clark, *French*.

M. Eastman, *History*.

J. K. Henry, *English*.

E. T. Hodge, *Geology*.

E. E. Jordan, *Mathematics*.

H. M. King, *Animal Husbandry*.

H. T. Logan, *Classics*.

I. MacInnes, *Modern Languages*.

E. G. Matheson, *Civil Engineering*.

G. G. Moe, *Agronomy*.

E. H. Russell, „

W. N. Sage, *History*.

O. J. Todd, *Classics*.

F. G. C. Wood, *English*.

H. F. Angus, *Economics*.

J. Davidson, *In Charge of Herbarium and Botanical Gardens*.

P. N. Elliott, *Physics*.

G. A. Gillies, *Mining*.

G. Grojean, *Modern Languages*.

A. E. Hennings, *Physics*.

H. Karr-Simpson (Miss), *Modern Languages*.

Thorleif Larsen, *English*.

W. L. MacDonald, *English*.

L. Richardson, *Mathematics*.

C. C. Ryan, *Mechanical Engineering*.

W. L. Uglow, *Geology*.

17 Instructors, Demonstrators, etc.

**Post-Graduate Courses**.—Master of Arts, Master of Science.

**Library**.—The University Library, consisting of 31,000 volumes and about 9,000 pamphlets. *Librarian* (Acting): J. Ridington.

## AFFILIATED INSTITUTIONS.

None as yet. Provision is made in the "British Columbia University Act" of affiliation of theological colleges with the University. Any normal school organized by the Department of Education for the instruction and training of teachers in the Science of Education and the art of teaching may be affiliated with the University.



# VANCOUVER INSTITUTE.

The objects of the Institute are the study and cultivation of the Arts, Sciences, Literature, Music and kindred subjects, by means of lectures, exhibitions, publications, and such other means as may from time to time be deemed advisable.

## AFFILIATED ORGANIZATIONS.

Art, Historical, and Scientific Society.  
Academy of Science.  
Archeological Institute.  
Architects' Institute of British Columbia.  
Vancouver Natural History Society.  
Vancouver Trades and Labour Council.  
Vancouver Teachers' Association.  
Women's University Club.  
B. S. Society of Fine Arts.  
B. C. Chamber of Mines.  
Alpine Club of Canada.

VANDERBILT UNIVERSITY. *See* NASHVILLE.

VASSAR COLLEGE. *See* POUGHKEEPSIE.

VICTORIA UNIVERSITY. *See* MANCHESTER.

VICTORIA UNIVERSITY. *See* TORONTO.

## WASHINGTON (District of Columbia).

WASHINGTON UNIVERSITY. *See* ST. LOUIS.

GEORGETOWN UNIVERSITY, Washington, D.C. (1788.)

*Terms* : Two per year.

*Students* : 2,140.

## OFFICIALS.

*President*.—Rev. J. B. Creeden, S.J.  
*Dean*.—Rev. W. Coleman Nevils, S.J.  
*Secretary*.—Rev. T. I. Gasson, S.J.

Degrees conferred.—D.D., LL.D., Ph.D., Litt.D., Sc.D., M.D., D.D.S., Phar.D., Mus.D., Ph.L., LL.M., L.D.M., M.S., LL.B., A.B., Ph.B., B.S., Mus.B., B.S. in Med.

## PROFESSORS.

### SCHOOL OF MEDICINE AND DENTISTRY.

#### Professors :

S. S. Adams, *Theory and Practice of Medicine*.  
E. R. Stitt, *Tropical Medicine*.  
W. G. Morgan, *Gastro-Enterology*.  
G. M. Kober, *Hygiene*.  
H. S. Bernton, *Medical Jurisprudence*.  
J. D. Thomas, *Physical Diagnosis*.  
R. Devereux, *Therapeutics*.  
W. M. Barton, "  
C. L. Griffith, *Materia Medica*.  
R. A. Hamilton, *Pathology*.  
W. D. Webb, *Surgical*.  
H. F. Strine, "  
J. D. Hid, *Toxicology*.  
F. A. Tondorf, *Physiology*.  
F. A. Casteel, *Operative Dentistry*.  
S. W. Bowles, " " "  
B. L. Taylor, *Dental Pathology*.  
P. B. Bain, *Prosthetic Dentistry*.

#### Professors—Continued :

H. Hopkins, *Orthodontia*.  
H. J. Nichols, *Oral Surgery*.  
W. B. Hoofnagle, *Dental Medicine*.  
C. A. Baker, *Crown and Bridge Work*.

#### Associate Professors :

E. B. Behrend, *Medicine*.  
I. A. O'Donoghne, *Clinical Medicine*.  
J. A. Foote, "  
W. D. Tewksbury, *Physical Diagnosis*.  
F. Sohon, *Physical Diagnosis*.  
L. F. Kebler, *Materia Medica*.  
R. G. Blaine, *Toxicology*.  
W. F. Henler, *Anatomy*.  
T. B. Johnson, "  
F. Cary, *Prosthetic Dentistry*.

#### Assistant Professors :

L. B. T. Johnson, *Hygiene*.  
J. J. McCarthy, *Physiology*.  
J. F. Crowley, "  
P. S. Madigan, "

**Assistant Professors—Continued :**

G. E. Ellis, *Physiology*.  
P. Newton, *Anatomy*.  
J. Pracher „

**Clinical Professors :**

T. S. Lee, *Medicine*.  
C. C. Marbury, *Medicine*.  
F. Leech, *Infectious Diseases*.  
3 Associates, 16 Instructors, 6 Lecturers, 2 Assistants.

**FACULTY OF ARTS AND SCIENCES.**

**Professors :**

Rev. E. I. Devitt, *Colonial History*.  
Rev. T. I. Gasson, *Evidences of Religion*.  
Rev. V. S. McDonough, *Elocution*.  
Rev. A. P. Brosnan, *Ethics and Elocution*.  
Rev. J. G. Causey, *Psychology and Natural Theology*.  
Rev. J. T. Toohey, *Logic*.  
F. X. Siggins, *Rhetoric*.  
J. F. Shea, *Poetry*.  
Rev. C. H. Mahan, *Poetry and Elocution*.  
A. M. Guenther, *Poetry and German*.  
J. C. Glose, *Philosophy and English*.  
Rev. P. Archer, *Astronomy*.  
Rev. H. I. Storck, *Chemistry*.  
Rev. T. H. Miley, *Mathematics and Mechanics*.  
A. B. Langguth, *Chemistry and Mathematics*.  
T. J. Love, *Physics*.  
Rev. H. J. Shandelle, *German*.  
Rev. L. S. Weber, *French*.  
N. Boyton, *English*.  
B. A. Leeming, *Latin*.  
Rev. C. Briones, *Spanish*.  
Rev. J. F. K. Murphy, *History and Economics*.  
A. De Yturbide, *French*.  
J. E. Grattan, *Music*.

**Professors—Continued :**

J. E. Bates, *Accounting*.  
E. V. Bookmiller, *Military Science*.

**SCHOOL OF LAW.**

**Lecturers :**

G. E. Hamilton, *Legal Ethics*.  
Hon. J. H. Covington, *Associations*.  
Hon. A. M. Gould, *Contracts and Equity*.  
J. W. Yerkes, *Railroad Law*.  
Hon. H. S. Boutell, *International Law*.  
J. J. Hamilton, *Real Property and Bankruptcy*.  
A. A. Hoehling, *Real Property and Evidence*.  
J. S. Easby-Smith, *Personal Property*.  
F. J. Hogan, *Evidence, Wills, and Trial Practice*.  
D. W. O'Donoghue, *Common Law Pleading*.  
J. C. Adkins, *Sales and Bailments, and Criminal Procedure*.  
J. E. Laskey, *Criminal Law and Domestic Relations*.  
W. J. Hughes, *Federal Practice and Procedure*.  
T. Ewing, *Patent Law*.  
H. J. Fegan, *Law of Insurance and Agency*.  
F. S. Maquire, *Patent Law Practice*.  
C. J. Murphy, *Negotiable Instruments and Torts*.  
Rev. T. I. Gasson, *Natural Law and Canon Law*.  
M. Smith, *Civil Law*.  
R. C. Minor, *Conflict of Laws*.  
J. D. Sullivan, *Real Property*.  
R. S. Harvey, *Interpretation of Foreign and Domestic Commerce Legislation*.

**Professor :**

W. J. Kavanagh, *Argumentation and Public Speaking*.  
2 Assistant Professors.

**Post-Graduate Courses** in the Departments of Philosophy, Economics, Language and Literature, History and Science.

**Library.**—Riggs' Memorial Library, 110,000 volumes. *Librarian* : Rev. H. J. Shandelle.

**Museums.—**

Coleman Museum of Natural History.  
Seismological Observatory. *Director* : Rev. F. A. Tondorf.  
Astronomical Observatory. *Director* : Rev. P. Archer.

**THE GEORGE WASHINGTON UNIVERSITY**, Washington, D.C. (1821.)

*Sessions* : Two, and a summer session.

*Students* : 3 400.

**OFFICIALS.**

*President*.—The Hon. W. M. Collier, M.A., LL.D.  
*Secretary*.—E. L. Kayser, M.A.  
*Treasurer*.—C. W. Holmes.

**Department of Arts and Sciences :**School of Graduate Studies: *Acting Dean*.—G. N. Henning, M.A., Litt.D.Columbian College: *Dean*.—W. A. Wilbur, A.M., Litt.D.College of Engineering: *Dean*.—H. L. Hodgkins, Ph.D.Teachers College and the Summer School: *Dean and Director*.—W. C. Ruediger, Ph.D.Law School: *Dean*.—M. Le Roy Ferson, M.A., LL.B.**Department of Medicine :***Dean*.—W. C. Borden, M.D.*Assistant Dean*.—O. B. Hunter, A.B., M.D.*Dean (Dental School)*.—C. J. Mess, D.D.S.National College of Pharmacy: *Dean*.—H. E. Kalusowski, Phar.D.College of Veterinary Medicine: *Dean*.—D. E. Buckingham, V.M.D.**Degrees conferred :***Degrees.*

B.A. - - Hood of black woollen stuff, faced with white velvet, and lined with blue silk, with a buff chevron.

B.S. - - (In Medicine, Chemistry, Chemical Engineering, Architecture, Mechanical, Civil and Electrical Engineering) Hood same as for B.A., but faced in gold yellow velvet instead of white.

M.D. - - Same as above, with the exception of facing of green velvet.

D.D.S. - - Same as above, with lilac facing.

D.Ph. - - Same, but with olive facing.

D.V.M. - - Same, but with grey facing.

M.A. - - Same as B.A., and B.S., respectively, with the exception that hoods are one foot longer.

Ph.D. - - Hood has panels and is faced with blue.

*Hoods.*

The Hoods for the honorary degrees differ from that of the Ph.D., in facing only. D.D. is faced in scarlet; LL.D., in purple; D.Sc., in gold yellow; Music, in pink; Litt.D., in white.

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Endowed with a sum of twenty-two million dollars by the late Andrew Carnegie, "to encourage in the broadest and most liberal manner, investigation, research, and discovery, and the application of knowledge to the improvement of mankind."

**OFFICIALS.**

*President*.—R. S. Woodward.

*Chairman, Board of Trustees*.—E. Root.

*Vice-Chairman*.—C. D. Walcott.

*Secretary*.—C. H. Dodge.

The Institution comprises the following departments:

Department of Experimental Evolution. (See Cold Spring Harbour.)

Department of Botanical Research. (See Tucson.)

Department of Embryology. (See Baltimore.)

Department of Marine Biology. (See Tortugas.)

Department of Meridian Astrometry. (See Albany.)

Mound Wilson Solar Observatory. (See Pasadena.)

Nutrition Laboratory. (See Boston, Mass.)

Department of Terrestrial Magnetism, 36th Street, Washington, D.C.

*Director*.—L. A. Bauer.



Besides work in terrestrial magnetism, researches are carried out in atmospheric electricity and allied subjects, also in magnetism in general and kindred topics. Physical laboratories, etc., are at National Rock Creek Park.

**GEOPHYSICAL LABORATORY**, Upton Street, Washington, D.C.

*Director.*—A. L. Day.

Carries out investigations to determine the modes of formation and the physical properties of the rocks of the earth's crust.

**DEPARTMENT OF HISTORICAL RESEARCH**, Woodward Buildings,  
Washington, D. C

*Director.*—J. F. Jameson.

Prepares publications intended to assist investigators in American History. It issues reports, etc., on historical documents hitherto unclassified and relatively inaccessible.

**THE DEPARTMENT OF AGRICULTURE**, Washington, D.C.

*Secretary of Agriculture.*—D. F. Houston.

Executive and administrative head of the department.

*Solicitor.*—W. W. Williams.

Legal adviser to the secretary and the heads of the several branches of the Department, conducts its legal work, and represents it in all legal matters.

*Office of Farm Management.*—H. C. Taylor (Chief).

Studies the details of farm practice from a business standpoint, with a view to determining the most efficient methods of operation.

*Weather Bureau.*—C. F. Marvin (Chief).

Conducts meteorological investigations; issues weather maps; handles all work relating to climate, storm warnings, frost warnings, etc.

*Forest Service.*—H. S. Graves (Forester).

Administers the national forests and develops use of their resources; directs all research work relating to forestry and forest utilization.

*Bureau of Animal Industry.*—J. R. Mohler (Chief).

Studies and gives information regarding live stock; conducts the meat inspection and quarantine work.

*Bureau of Plant Industry.*—W. A. Taylor (Chief).

Investigates questions relating to plants and plant industries.

*Bureau of Chemistry.*—C. L. Alsberg (Chief.)

Enforces the Food and Drugs Act; investigates questions of agricultural chemistry.

*Bureau of Soils.*—M. Whitney (Chief).

Surveys and maps the soils and investigates the fertilizer resources of the United States.

*Bureau of Crop Estimates.*—L. M. Estabrook (Chief).

Collects crop statistics; issues crop reports and forecasts; gathers and collates general agricultural statistics.

*Bureau of Entomology.*—L. O. Howard (Chief).

Studies insects in their relation to agriculture.

*Bureau of Biological Survey.*—E. W. Nelson (Chief).

Studies wild birds and animals, their distribution, habits, and relations to agriculture; administers the Federal bird and game reservations, and the Federal laws protecting game and regulating the importation of birds and animals; controls noxious mammals, and experiments in fur farming.

*Bureau of Public Roads.*—T. H. MacDonald (Chief).

Studies and supplies information regarding road making, road management, road maintenance, farm irrigation, farm drainage, and rural engineering and architecture.

*States Relations Service.*—A. C. True (Director).

Supervises the use of Federal funds for agricultural experiment stations and agricultural extension work; investigates agricultural education, and food, dietetics, clothing, and household equipment and management.

*Bureau of Markets.*—G. Livingston (Acting Chief).

Investigates problems pertaining to marketing and distribution of farm products and organizing rural communities for marketing, rural credit, and

other proposes. Maintains market news services on fruits and vegetables, live stock and meats, hay and seeds, dairy and other products, and inspects shipments of fruits and vegetables upon request. Enforces Cotton Futures Act, Grain Standards Act, Standard Container Act, and administers the Warehouse Act.

*Division of Publications.*—E. B. Reid (Chief).

Supervises the work connected with the printing and distribution of the publications of the department.

*Federal Horticultural Board.*—C. L. Marlatt (Chairman).

Assists in the enforcement of the Plant Quarantine Act of August 20th, 1912.

*Insecticide and Fungicide Board.*—J. K. Haywood (Chairman).

Assists in the enforcement of the Insecticide Act of 1910.

**Library.**—*Librarian:* Claribel R. Barnett. Acquires and makes available the literature necessary for use in the work of the Department.

### LIBRARY OF CONGRESS. (1800.)

In 1814 the collection was destroyed by the burning of the Capitol. In 1815 the Jefferson Library of 6,700 volumes was purchased from Ex-President Jefferson as a basis for a new collection. A fire in 1851 destroyed 35,000 volumes out of a collection of 55,000, including two-thirds of the Jefferson Library. At a late date the Library was replenished. The Smithsonian Library, consisting of about 40,000 volumes of Transactions of learned and scientific societies, was added in 1867. Removed from the Capitol to the present site in 1897. The building occupies  $3\frac{3}{4}$  acres, upon a site 10 acres in extent, and is the largest library building in the world. In the decorations some forty painters and sculptors are represented (all American citizens). The book stacks contain a total of about 100 miles of shelving, with capacity for 3,540,000 octavo volumes of books and 84,000 volumes of newspapers.

The Library, though still entitled the Library of Congress, is no longer solely nor chiefly a legislative library. In its general relations, character, scope, and service, it is the National Library of the United States.

### OFFICIALS.

#### General Administration.

*Librarian of Congress.*—Herbert Putnam.

*Chief Assistant Librarian.*—Appleton P. C. Griffin.

*Chief Clerk.*—Allen R. Boyd.

*Secretary.*—Jessica L. Farnum.

#### Main Reading Room.

*Superintendent.*—F. W. Ashley.

*Chief Assistants.*—H. A. Morrison, J. G. Morrison.

*Reading Room for the Blind.*—Mrs. G. T. Rider.

*Representatives' Reading Room.*—L. Washington.

### CHIEFS OF DIVISIONS.

H. H. B. Meyer, *Bibliography.*

A. R. Kimball, *Binding.*

C. H. Hastings, *Card.*

C. Martel, *Catalogue.*

C. W. Perley, *Classification.*

H. J. Harris, *Document.*

C. W. Collins, jr. (Administrative

Assistant), *Legislative Reference.*

S. M. Croft, *Mail and Delivery.*

C. Moore (Acting Chief), *Manuscript.*

P. L. Phillips, *Maps and Charts.*

W. R. Whittlesey (in charge), *Music.*

W. A. Slade, *Periodical.*

R. A. Rice (Acting Chief), *Print.*

I. Schapiro (in charge), *Semitic.*

P. Brockett (Custodian), *Smithsonian.*

(Office at Smithsonian Institution).

#### Law Library.

(F. H. Parsons in charge.)

*Law Librarian.*—Gilbert Hirsch.

#### Copyright Office.

*Registrar.*—T. Solberg.

*Assistant Registrar.*—A. Crisfield.

**Building and Ground.***Superintendent.*—F. L. Averill.

**Divisions.**—There are seventeen divisions in the Library proper, entitled as follows: Reading Room, Bibliography, Binding, Card, Catalogue, Classification, Documents, Mail and Delivery, Manuscripts, Maps and Charts, Music, Order, Periodical, Prints, Semitic, Smithsonian, Law Library.

The Printing Office and Bindery, though located in the Library, are branches of the Government Printing Office. The Legislative Reference Division, established in 1915, undertakes for Congress the service of research and compilation familiar in certain of the States.

**Volumes.**—The collection is now the largest on the Western Hemisphere, and the third in the world. It comprises about 2,710,556 printed books and pamphlets (including the Law Library of 187,322 volumes which, while a division of the Library of Congress, still remains at the Capitol), 163,484 maps and charts, 848,292 pieces of music, and 409,029 photographs, prints, engravings, and lithographs.

Among the special book collections are the Yudin, of Russian literature (80,000 volumes); the Schiff, of Judaica (about 20,000); the Weber, of India; the Huiffeld-Kaas (Scandinavian); the John Boyd Thacher of Incunabula (930 titles). The Orientals include some 5,000 volumes (fascicules) of Japanese books and about 40,000 volumes (fascicules) of Chinese.

**Publications.**—The publications of the Library fall into five classes: (1) Annual reports of the librarian; (2) Bibliographies, consisting of exhaustive lists of works contained in the Library, such as the list of books on the Philippine Islands, Biblioteca Filipina, etc.; (3) Reference lists consisting of select lists on subjects of immediate interest—Marine subsidies, Reciprocity, Trusts, Federal control of commerce, etc.; (4) Catalogues of special Collections belonging to the Library—*e.g.*, Catalogue of the Gardiner Greene Hubbard collection of engravings, Catalogue of the John Boyd Thacher collection of Incunabula; (5) Calendars of and reprints of special collections of manuscripts—*e.g.*, Calendar of the correspondence of George Washington, 4 vols., Journals of the Continental Congress; (6) Reports and compendiums on library history and methods; catalogue rules, classification, schedules, etc. The bibliographical publications and administrative reports are distributed free to libraries and institutions.

**Copyright.**—The Copyright Office, though attached to the Library, and under the general direction of the librarian, is in effect a distinct bureau. The appropriation for it (in 1919, \$104,740) is more than offset by fees covered into the Treasury (in 1918, \$113,118).

**Library Staff.**—The Library has 667 employees including in the Library proper 263; Copyright Office, 91; Legislative Reference, 30; department for the distribution of catalogue cards, 45; disbursement service and care of building and grounds, 141.

**Income.**—The Library is maintained by annual appropriation by Congress, for various purposes, including the purchase of books. For the year 1919, these amounted to \$707,925 (not including allotment for printing and binding, \$200,000), as follows: \$566,425 for service and contingent expenses (including the Copyright Office, and including also the care of the building); \$98,000 for books and periodicals; \$21,500 for fuel, supplies, and miscellaneous purposes; \$22,000 for furniture and shelving.

**Expenditures.**—Expenditures correspond to the appropriations.

## U.S. PUBLIC HEALTH SERVICE (Treasury Department), 25th and E. Streets, N.W., Washington, D.C.

Established at Stapleton, N.Y., 1887; removed to Washington, 1891.

**Functions.**—The study of diseases of man and conditions influencing their propagation and spread, including sanitation and sewage and the pollution of water supplies; the standardization and supervision of viruses, serums, toxins, antitoxins, and allied products; post-graduate studies for officers of the Service and of Municipal and State Health Departments.

**OFFICIALS.**

*Surgeon General.*—R. Blue, United States Public Health Service.

*Advisory Board.*—Nine Members.

# LABORATORY.

*Director.*—G. W. McCoy (Surgeon).  
*Assistant Director.*—A. M. Stimson (Surgeon).  
*Execution Clerk.*—C. E. B. K. Foltz.  
*Senior Pharmacist.*—C. O. Sterns.  
*Junior Pharmacist.*—C. C. Cannon.  
*Artist.*—L. H. Wilder.  
*Librarian.*—M. G. Motter.

**Reference Library.**—8,000 bound volumes, and 10,000 pamphlets and reprints.

## DIVISION OF PATHOLOGY AND BACTERIOLOGY.

### In charge of Division.

G. W. McCoy (Surgeon).

### Assistants :

A. M. Stimson (Surgeon).  
 B. J. Lloyd (Surgeon).  
 C. W. Chapin (Surgeon).  
 H. E. Hasseltine (Passed Assistant Surgeon).  
 J. P. Leake (Passed Assistant Surgeon).  
 G. C. Lake (Assistant Surgeon).

### Bacteriologists :

T. W. Kammerer. A. Bengtson (Miss).  
 H. B. Corbitt. A. C. Evans (Miss).

### Technical Assistant :

W. D. Cannon.

## Technical Assistants :

A. Seidell.  
 G. B. Roth.  
 A. G. Du Mez.  
 J. M. Johnson (Physiological Chemist).  
 C. W. Hooper (Pathologic Physiologist).  
 A. C. Livingston (Physiologist).  
 A. C. Kolls (Pharmacologist).  
 H. W. Smith (Assistant Pharmacologist).  
 M. M. Crane (Miss), (Assistant Pharmacologist).  
 K. D. Wright (Miss), (Scientific Assistant).  
 M. A. Connell (Miss), (Scientific Assistant).

## DIVISION OF ZOOLOGY.

### Chief of Division :

C. W. Stiles.

### Laboratory Aids :

M. L. Brown (Miss). M. Wood (Miss).  
 E. Rowntree (Miss).

## DIVISION OF PHARMACOLOGY.

### Chief of Division :

C. Voegtlin.

## DIVISION OF CHEMISTRY.

### Chief of Division :

Vacant.  
 E. Elvove (in charge of the Division *ad interim*), (Physiological Chemist).  
 H. L. Shoub (Technical Assistant).  
 E. J. Casselman (Assistant Chemist).  
 C. G. Remsburg (Assistant in Chemistry).  
 O. H. Schunk (Assistant in Chemistry).

## THE WASHINGTON ACADEMY OF SCIENCES, Washington, D.C. (1898.)

### OFFICIALS.

*President.*—C. L. Alsberg.  
*Corresponding Secretary.*—R. B. Sosman.  
*Recording Secretary.*—W. R. Maxon.  
*Treasurer.*—R. L. Faris.

The Academy is affiliated with the following societies:

Anthropological, Archeological, Biological, Botanical, Chemical, Electrical Engineers', Engineers', Entomological, Foresters', Geographic, Geological, Historical Medical, and Philosophical.

**Publications.**—Proceedings (quarterly, discontinued in 1911); Journal (semi-monthly).

## AMERICAN HISTORICAL ASSOCIATION.

(Organized September, 1884. Chartered by Act of Congress March 3rd, 1889.)

Object: Promotion of historical studies.

### OFFICIALS.

*President.*—W. R. Thayer.  
*First Vice-President.*—E. Channing.  
*Second Vice-President.*—J. J. Jusserand.  
*Secretary.*—W. G. Leland.  
*Treasurer.*—C. Moore.  
*Secretary of the Council.*—E. B. Greene.



**Publications.—**

*Annual Report*, which is transmitted to the Secretary of the Smithsonian Institution for publication by authority as a public document.

*American Historical Review*, published quarterly by the Macmillan Company, New York. *Managing Editor*: J. F. Jameson.

**Annual Meetings.**—Held in December, in various cities.

**Membership.**—2,600. Annual income from dues and investments, \$10,000.

**THE ANTHROPOLOGICAL SOCIETY OF WASHINGTON.**

Organized 1879, "to encourage the study of the natural history of man, especially with reference to America."

**OFFICIALS.**

*President.*—G. M. Kober.

*Vice-President.*—T. Michelson.

*Secretary.*—F. Neumann.

*Treasurer.*—J. N. B. Hewitt.

**Publications.**—Transactions (3 volumes); Abstract Transactions (1 volume); American Anthropologist.

**THE ARCHEOLOGICAL INSTITUTE OF AMERICA.**

Founded 1879. Headquarters 1741, New York Avenue, Washington, D.C.

Its purpose is "to promote and direct archeological research." It has 45 branches, located in various cities of the United States and Canada. The Washington Society of the Archeological Institute of America was founded April 7th, 1902.

**OFFICIALS OF THE WASHINGTON SOCIETY.**

*President.*—Robert Lansing.

*Secretary.*—M. Carroll.

*Treasurer.*—J. B. Larnier.

**BIOLOGICAL SOCIETY, c/o Cosmos Club, Washington, D.C., U.S.A.**

The Biological Society of Washington was organized in 1880, "to encourage the study of the Biological Sciences and to hold meetings at which papers shall be read and discussed."

**OFFICIALS.**

*President.*—H. M. Smith.

*Vice-Presidents.*—

A. D. Hopkins.

N. Hollister.

Vernon Bailey.

A. S. Hitchcock.

*Recording Secretary.*—M. W. Lyon, Jr.

*Corresponding Secretary.*—W. L. McAtee.

*Treasurer.*—N. Dearborn.

**Publications.**—Proceedings of the Biological Society of Washington, 32 volumes. The current proceedings of the Society are also published in the Journal of the Washington Academy of Sciences.

The Society meets bi-monthly October to May.

**THE BOTANICAL SOCIETY OF WASHINGTON. (Organized 1901.)**

The object of the Society is "the exposition and discussion of the results of botanical investigations, and the promotion of social intercourse among the members."

**OFFICIALS.**

*President.*—K. F. Kellerman.

*Vice-President.*—C. R. Ball.

*Recording Secretary.*—C. E. Chambliss.

*Corresponding Secretary.*—R. K. Beattie.

*Treasurer.*—L. L. Harter.

**THE CHEMICAL SOCIETY OF WASHINGTON. (Organized 1884.)**

In 1893 it became a section of the American Chemical Society.

**OFFICIALS.**

*President.*—C. O. Johns.

*Secretary.*—E. C. McKelvy.

*Treasurer.*—F. P. Dewey.

**Publication.**—Bulletin of the Chemical Society of Washington (discontinued).



**THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.** Founded 1884.  
Devoted to the interest of Electrical Engineering and the development of Applied Electricity.

**OFFICIALS OF THE WASHINGTON SECTION.**

*Chairman.*—J. E. Smith.  
*Secretary.*—M. Flanders.

**THE WASHINGTON SOCIETY OF ENGINEERS.** (Organized 1905. Incorporated 1909.)

The purpose of the Society is "the advancement of engineering knowledge and practice, and the maintenance of a high professional standard among its members."

**OFFICIALS.**

*President.*—M. Hacker.  
*Vice-President.*—W. C. Thom.  
*Secretary.*—W. E. Parker.  
*Treasurer.*—G. P. Springer.

**THE ENTOMOLOGICAL SOCIETY OF WASHINGTON.** (Organized 1884.)

"To promote the study of Entomology in all possible bearings."

**OFFICIALS.**

*Honorary President* (permanent).—E. A. Schwarz.  
*President.*—E. R. Sasser.  
*First Vice-President.*—W. R. Walton.  
*Second Vice-President.*—A. B. Gahan.  
*Recording Secretary.*—R. A. Cushman.  
*Corresponding Secretary-Treasurer.*—S. A. Rohwer.  
*Editor.*—A. C. Baker.

**Publications.**—Proceedings of the Entomological Society of Washington (annual).

**THE SOCIETY OF AMERICAN FORESTERS,** Atlantic Building,  
Washington, D.C.

The Society of American Foresters was organized in 1900, "to further the cause of forestry in America by fostering a spirit of comradeship among foresters; by creating opportunities for a free interchange of views upon forestry, and allied subjects; and by disseminating a knowledge of the purpose and achievements of forestry." Senior members are professional foresters. Associate members are persons who have rendered distinguished service to the cause of American forestry, but who are not professional foresters.

**OFFICIALS.**

*President.*—E. F. Olmsted.  
*Vice-President.*—W. W. Ashe.  
*Secretary.*—P. D. Kelleter.  
*Treasurer.*—A. F. Hawes.

In 1917 the Proceedings of the *Society of American Foresters*, of which 11 volumes had been issued, was amalgamated with the *Forestry Quarterly*. The new publication is issued semi-quarterly under the name of *Journal of Forestry*. The current proceedings of the local section are published in the *Journal of the Washington Academy of Sciences*.

**THE NATIONAL GEOGRAPHIC SOCIETY,** Hubbard Memorial Hall, 16th Street,  
Washington, D.C.

Founded in 1888, "for the increase and diffusion of geographic knowledge," the Society has now more than 675,000 members. In the promotion of its purpose to increase geographic knowledge, its expeditions have unearthed Machu Picchu, the holy city of the Incas, and the staircase farms of the ancients in America, which far eclipse the hanging gardens of Babylon; have studied the problems of volcanism and earthquakes in the West Indies, Alaska, and the Mediterranean; have made exhaustive study of glacial action in Alaska, and accomplished other important investigations and discoveries. In the work of diffusing geographic knowledge, it publishes a magazine which reaches more than 675,000 homes, conducts a bureau of information which furnishes daily statements without charge to the press of the United States

concerning places and matters of geographic interest in the public eye, publishes books, maps, and monographs, and otherwise cultivates a national interest in the broader phases of non-technical as well as technical geography. The Society last year contributed out of its reserve funds the money necessary to purchase, to preserve from destruction, the privately-owned big trees of the Sequoia National Park region of California, and deeded them to the Federal Government to be held in perpetuity for the benefit of posterity.

In 1916 its expedition under Prof. R. F. Griggs climbed Mount Katmai, in whose crater Vesuvius could be buried, and discovered "The Valley of Ten Thousand Smokes." In 1917, a second expedition to this valley showed its area and the character of the phenomena observed to surpass anything hinted at in the reports of the previous expedition. In 1918 the Society sent a fourth expedition to Alaska to prepare bases and make observations in preparation for a large expedition, which sailed from Seattle, Washington, in April, 1919.

The Society co-operated energetically with the United States forces in the prosecution of the war.

### THE GEOLOGICAL SOCIETY OF WASHINGTON. (Organized 1893.)

"For the increase and diffusion of geological knowledge."

#### OFFICIALS.

*President.*—E. O. Ulrich.

*Vice-Presidents.*—G. H. Ashley, H. S. Gale.

*Secretaries.*—R. W. Stone, R. S. Bassler.

*Treasurer.*—W. B. Heroy.

### THE COLUMBIA HISTORICAL SOCIETY. (Organized 1894. Incorporated 1894.)

"For the collection, preservation, and diffusion of knowledge respecting the history and topography of the District of Columbia and national history and biography."

#### OFFICIALS.

*President.*—A. C. Clark.

*Vice-Presidents.*—J. Barnard, W. B. Bryan.

*Treasurer.*—C. H. Rudolph.

*Recording Secretary.*—Miss M. B. Morris.

*Corresponding Secretary.*—W. F. Roberts.

*Curator.*—J. F. Hood.

*Chronicler.*—F. L. Fishback.

#### Publications.—

Records of the Columbia Historical Society.

### THE MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA. (Founded 1817. Chartered 1819.)

The object of the Society is the "promotion, locally and generally, of the science and art of medicine and sanitation, and the interests of the medical profession."

#### OFFICIALS.

*President.*—W. G. Morgan.

*Vice-Presidents.*—Miss A. R. Thomas, A. R. Shands.

*Corresponding Secretary.*—J. R. Verbrycke, jr.

*Recording Secretary.*—H. C. Macatee.

*Treasurer.*—C. W. Franzoni.

### THE PHILOSOPHICAL SOCIETY OF WASHINGTON. (Organized 1871.)

"For the purpose of free exchange of views on scientific subjects, and the promotion of scientific inquiry among its members."

#### OFFICIALS.

*President.*—W. J. Humphreys.

*Vice-Presidents.*—R. B. Sosman, R. L. Faris.

*Corresponding Secretary.*—E. C. Crittenden.

*Recording Secretary.*—S. J. Mauchly.

*Treasurer.*—E. F. Mueller.

**Publications.**—Bulletin of the Philosophical Society of Washington (discontinued in 1911).

# WELLINGTON (New Zealand).

**THE UNIVERSITY OF NEW ZEALAND**, Wellington, New Zealand.

*Affiliated Colleges:* University of Otago, Dunedin; Canterbury College, Christchurch; Auckland University College, Auckland; Victoria College, Wellington.

## OFFICIALS.

*Visitor.*—His Excellency the Governor-General.

*Chancellor.*—Sir Robert Stout, K.C.M.G., LL.D.

*Vice-Chancellor.*—John Macmillan Brown, M.A., LL.D.

*Registrar.*—Edwin T. Norris, M.A.

## Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Gown similar to Cambridge B.A. Hood lined with pink silk and bordered with white fur.
M.A. - -	Gown similar to Cambridge M.A. Hood lined with pink silk.
Litt.D. - -	Gown similar to M.A. Hood wholly made of pink silk.
B.Sc. - -	Gown similar to B.A. Hood lined with dark blue silk and bordered with white fur.
M.Sc. - -	Gown similar to B.Sc. Hood lined with dark blue silk.
D.Sc. - -	Gown similar to B.Sc. Hood made wholly of dark blue silk.
B.LL. - -	Gown similar to B.A. Hood lined with light blue silk and bordered with white fur.
M.LL. - -	Gown similar to M.A. Hood lined with light blue silk.
D.LL. - -	Gown similar to M.LL. Hood made wholly of light blue silk.
M.B. - -	Gown similar to B.A. Hood lined with mauve silk and bordered with white fur.
M.D. - -	Gown similar to B.M. Hood made wholly of mauve silk.
Mus.B. - -	Gown similar to B.A. Hood lined with white silk and bordered with white fur.
Mus.D. - -	Gown similar to B.Mus. Hood made wholly of white silk.
B.E. - -	Gown similar to B.Sc. Hood lined with violet silk and bordered with white fur.
B.Ag. - -	Gown similar to B.Sc. Hood lined with light green silk and bordered with white fur.
B.D.S. - -	Gown similar to B.M. Hood lined with purple silk and bordered with white fur.
B.Vet.Sc. - -	Gown similar to B.Sc. Hood lined with orange silk and bordered with white fur.
B.Com. - -	Gown similar to B.Sc. Hood lined with orange silk and bordered with white fur.
B.Sc. in Home Science	Gown similar to B.A. Hood lined with old gold silk and bordered with white fur.

**VICTORIA UNIVERSITY COLLEGE**, Wellington, New Zealand. (1897.)

An affiliated Institution of the University of New Zealand, *q.v.*

*Terms:* Three a year.

**OFFICIALS.** See **NEW ZEALAND UNIVERSITY.**

**Degrees conferred.**—See **NEW ZEALAND UNIVERSITY.**

## PROFESSORS.

### Professors :

J. Rankine Brown, *Classics.*  
H. Mackenzie, *English Language and Literature.*  
T. H. Easterfield, *Chemistry.*  
D. M. Y. Sommerville, *Mathematics, Pure and Applied.*  
H. B. Kirk, *Biology.*  
J. Adamson, *Roman Law, Jurisprudence and Constitutional History.*  
J. M. E. Garrow, *English and New Zealand Law.* [*Philosophy.*]  
T. A. Hunter, *Mental and Moral*

### Professors—Continued :

E. Marsden, *Physics.*  
W. Clark (Temp.).

### Lecturers :

F. P. Wilson, *History.*  
G. A. Cotton, *Geology.*  
J. S. Tennant, *Education.*  
J. Thompson, *French.*  
M. Baker (Miss), *German.*  
G. G. C. Watson, *Evidence and Procedure.*  
B. E. Murphy, *Economics.*  
8 Assistants.

**NEW ZEALAND GEOLOGICAL SURVEY**, 38, The Terrace, Wellington, N.Z.

The Geological Survey of New Zealand is a branch of the Mines Department. Its present personnel is as follows:

*Director*.—P. G. Morgan, M.A., A.O.S.M., F.G.S.

*Mining Geologist*.—J. Henderson, B.E., M.A., D.Sc.

*Geologist*.—H. T. Ferrer, M.A., F.G.S.

*Assistant Geologists*.—M. Ongley, B.Sc., M.A.; L. I. Grange, B.Sc.

*Draughtsman*.—G. E. Harris.

*Clerk and Librarian*.—F. Fulton-Wood.

**Publications**.—Prior to 1905 numerous reports and other publications were issued under the direction of Sir James Hector. These are now nearly out of print. In 1905 the Geological Survey was reorganized under the direction of Dr. J. M. Bell. Since then, twenty geological bulletins giving the results of detailed surveys, seven paleontological bulletins, thirteen annual reports, and various other publications have been issued. Numerous papers by members of the staff have appeared in the *Transactions of the N.Z. Institute*, the *N.Z. Journal of Science and Technology*, and in other publications.

**Scope of Survey**.—The Geological Survey has in hand the detailed geological survey of New Zealand. It also reports on mineral deposits, and gives information concerning mineral resources.

**WESLEYAN UNIVERSITY.** *See* MIDDLETOWN.

**WESTERN AUSTRALIA, UNIVERSITY OF.** *See* PERTH.

**WESTERN RESERVE UNIVERSITY.** *See* CLEVELAND.

**WESTERN THEOLOGICAL SEMINARY.** *See* PITTSBURG.

**WILLIAMSTOWN (Massachusetts).**

**WILLIAMS COLLEGE**, Williamstown, Mass. (1793.)

*Terms*: Two a year.

*Students*: 555.

*Budget*: Current disbursements, \$261,726.98.

**OFFICIALS.**

*President*.—H. A. Garfield, LL.D.

*Chairman* (pro tem.) of the Faculty.—Carroll, L. Maxcy, M.A.

*Dean*.—George Edwin Howes, Ph.D.

*Registrar*.—Elmer A. Green, M.A.

**Degrees conferred**.—B.A., M.A. Honorary: D.D., M.A., L.H.D., Litt.D., LL.D.

**PROFESSORS.**
**Professors:**

F. Goodrich, *European History*. [ture.

H. D. Wild, *Latin Language and Litera-*

A. H. Morton, *Natural Theology*.

C. L. Maxcy, *Rhetoric*.

W. I. Milham, *Astronomy*.

J. L. Kellogg, *Biology*.

T. C. Smith, *American History, Literature, and Eloquence*.

H. F. Cleland, *Geology and Mineralogy*.

W. E. McElfresh, *Physics*.

G. E. Howes, *Ancient Languages*.

J. G. Hardy, *Mathematics*.

F. H. Howard, *Physiology*.

G. Droppers, *Political Economy*.

K. E. Weston, *History of Art and Civilization*.

M. N. Wetmore, *Latin*.

R. L. Taylor, *Romance Languages*.

J. B. Pratt, *Intellectual and Moral Philosophy*.

B. J. Rees, *English*.

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W. W. McLaren, *Economics*.

W. H. Doughty, *Government*.

B. Mears, *Chemistry*.

S. O. Dickerman, *Greek Language and Literature*.

**Assistant Professors:**

D. T. Clark, *Economics*.

J. S. Galbraith, *Greek and Latin*.

E. I. Shepard, *Mathematics*.

S. E. Allen, *Rhetoric*.

C. W. Johnson, *German*.

J. P. Rice, *Romance Languages*.

G. B. Dutton, *English*.

A. H. Licklider, *English Literature*.

H. L. Agard, *Mathematics*.

O. W. Long, *German*.

T. B. Hewitt, *German*.

A. H. Buffinton, *History*.

J. N. Cru, *French*.

R. Peattie, *Geology*. [ant.

2 Lecturers, 15 Instructors, 1 Assist-



**Post-Graduate Courses.**—Leading to the degree of Master of Arts.

**Libraries.**—One main Library; seven branch libraries. Main Library, 92,000 volumes, exclusive of duplicates and about 20,000 pamphlets. *Librarian*: Christine Price, B.S.

**Museum.**—Geological Museum.

## WINDSOR (Nova Scotia).

**UNIVERSITY OF KING'S COLLEGE**, Windsor, Nova Scotia. (1789.)

The oldest University in the British Overseas Dominions.

*Terms*: Two per year. *Students* (undergraduates): 110.

*Budget*: Income and Expenditure about \$30,000.

### OFFICIALS.

*Patron.*—The Archbishop of Canterbury.

*Visitor.*—The Bishop of Nova Scotia.

*Chancellor.*—Hon. Sir C. Townshend.

*Vice-Chancellor.*—Rev. T. S. Boyle, D.D., D.C.L.

*Public Orator.*—Rev. T. H. Hunt, D.D.

*Registrar.*—Rev. F. W. Vroom, D.D., D.C.L.

**Degrees conferred.**—B.A., M.A., B.Sc., D.Sc., B.Eng., M.Eng., B.D., D.D., B.C.L., D.C.L.

The Hoods are in every case the same as used in the University of Oxford.

### PROFESSORS.

Rev. F. W. Vroom, *Divinity*.

Rev. T. H. Hunt „

J. B. McCarthy, *Chemistry*.

A. A. Sturley, *Engineering*.

H. W. A. Wadley, *Mathematics*.

Rev. C. E. Willets, *Classics*.

Rev. A. W. M. Harley, *English*.

Rev. T. S. Boyle, *History*.

Rev. G. F. Kingston, *Philosophy*.

Rev. A. E. Andrew, *Pastoral Theology*.

6 Lecturers.

**Post-Graduate Courses.**—Leading to degrees of D.D., D.Sc., and D.C.L.

*Librarian*: Rev. Dr. Vroom.

**Museum or Society.**—Haliburton Society, for the study of Modern History and Literature.

**WISCONSIN UNIVERSITY.** See MADISON.

**WISTAR INSTITUTION UNIVERSITY.** See PHILADELPHIA.

## WOODS HOLE (Massachusetts).

**THE MARINE BIOLOGICAL LABORATORY**, Woods Hole, Mass. (1888.)

### OFFICIALS.

*Director.*—Prof. F. R. Little.

*Assistant Director.*—Gilman A. Drew.

*Treasurer.*—D. Blakely Hoar.

*Publication.*—Biological Bulletin.

## WOOSTER (Ohio).

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—C. E. Thorne.

## WORCESTER (Massachusetts).

**CLARK UNIVERSITY**, Worcester, Mass. (1889.)

*Terms*: Two semesters.

*Students*: 106.

*Budget*:

Clark University Endowment	\$1,484,000	Income	\$60,230
Library	„ 813,590	„	35,430
Art Department	„ 100,000	„	4,000

### OFFICIAL.

*President and Professor of Psychology.*—G. S. Hall, Ph.D., LL.D.

**Degrees conferred.**—M.A., Ph.D.

*Hoods.*—University colours—emerald green and white—to be worn in the hood of Doctor's gown as a green chevron on a white field.



## PROFESSORS.

## Professors :

G. S. Hall, *Psychology*.  
 W. E. Story, *Mathematics*.  
 A. G. Webster, *Physics*.  
 H. Taber, *Mathematics*.  
 W. H. Burnham, *Pedagogy and School Hygiene*.  
 G. H. Blakeslee, *History and International Relations*.

## Professors—Continued :

R. S. Lillie, *Biology*.  
 C. A. Kraus, *Chemistry*.  
 F. H. Hankins, *Sociology*.  
 E. G. Boring, *Experimental Psychology*.

## Associate Professor :

A. B. Hulbert, *History*.

## Assistant Professor :

S. W. Fernberger, *Experimental Psychology*.

3 Instructors, and 8 Lecturers.

**Post-Graduate Courses.**—All courses in the University are post-graduate.

**Librarian and Custodian of the Art Collection.**—L. N. Wilson.

**Museum.**—The Children's Institute and Educational Museum.

## AFFILIATED INSTITUTE.

Clark College.

**CLARK COLLEGE**, Worcester, Mass. (1902.)

*Terms* : Two semesters.

*Students* : 205.

*Budget* : Endowment, \$1,673.200. Income, \$80,548.

## OFFICIALS.

*President.*—E. C. Sanford, Ph.D., LL.D.

*Degree conferred.*—B.A.

## PROFESSORS.

## Professors :

J. P. Porter, *Psychology*.  
 B. S. Merigold, *Chemistry*.  
 F. B. Williams, *Mathematics*.  
 G. H. Blakeslee, *History and International Relations*.  
 P. C. Hoyt, *English*.  
 C. B. Randolph, *Latin*.  
 P. H. Churchman, *Romance Languages*.  
 H. D. Brackett, *Greek*.  
 L. C. Wells, *French and Spanish*.  
 F. H. Hankins, *Political and Social Science*.  
 L. A. Ames, *English Literature*.  
 I. A. Field, *Biology*.

## Associate Professors :

L. H. Dodd, *English*.  
 C. E. Mellville, *Mathematics*.  
 G. F. White, *Organic Chemistry*.  
 R. H. Goddard, *Physics*.

## Assistant Professors :

L. R. Geissler, *Psychology and Education*.  
 E. H. Harrington, *Physics*.  
 K. S. Rice, *Biology*.  
 C. O. Fisher, *Economics*.  
 J. Metivier, *French*.  
 J. S. French, *Mathematics*.  
 L. H. Jenks, *History*.

2 Lecturers, 1 Director of Physical Education, 1 Medical Director, and 1 Musical Director.

**Post-Graduate Courses.**—All courses in the College are undergraduate.

**Librarian** : L. N. Wilson.

**WORCESTER ART MUSEUM**, Worcester, Mass., U.S.A.

The Worcester Art Museum, founded in 1896, by Stephen Salisbury, for the promotion of Art and Art Education in Worcester.

## OFFICIALS.

*President.*—F. H. Dewey.

*Treasurer.*—L. N. Kinnicutt.

*Vice-President.*—F. S. P. Bratt.

*Director.*—Raymond Wyer.

The collections include archeology, architecture, coins, and medals, furniture, ceramics, metalwork, Oriental objects, Colonial silver, sculpture, textiles, woodwork, prints, photographs, and a library. Of special note are the collections of paintings by old and modern masters; the unique group of Italian terra-cottas of the fifteenth and sixteenth centuries; the Bancroft Collection of Japanese Prints—one of the best public collections in the country; the Goodspeed Collection of engravings by American masters.

Lectures are offered to the public and to special groups of persons and organizations. The Museum was a pioneer in starting a section devoted to children, and has taken the initiative in an improved system of education.

**AMERICAN ANTIQUARIAN SOCIETY**, Worcester, Mass. (1812.)

Membership consists of 175 United States members and 35 foreign members. No dues, and all members elected for honorary reasons only.

**OFFICIALS.**

*President.*—W. Lincoln.

*Librarian.*—C. S. Brigham.

**Publications** consist of semi-annual *Transactions*, volumes 1-12 (1820-1911), at \$2.50; *Proceedings*, 1812-1880 (occasional, 1880-1919), at \$2.00 a volume.

**Library.**—Consists of 130,000 volumes, 196,000 pamphlets, and 40,000 manuscripts.

**WYE (Kent).**

**SOUTH EASTERN AGRICULTURAL COLLEGE**, Wye, Kent. (1893.)

*Terms* : Three per year.

*Students* : 160.

**OFFICIALS.**

*Principal.*—M. J. R. Dunstan, O.B.E., M.A.

*Assistant Principal.*—T. W. Cave, M.R.C.V.S.

*Vice-Principal.*—F. V. Theobald, M.A.

*Secretary.*—J. N. L. Jones.

**Degrees conferred.**—Students are prepared for the B.Sc. (Agric.) Degree of London University.

The College grants diplomas in Agriculture and Horticulture to duly qualified students.

**AGRICULTURE AND DAIRYING.**

**Staff :**

M. J. R. Dunstan.	J. C. Norie.
W. H. Kersey.	W. A. Stewart.
J. H. Mattinson.	H. Aglesby.

**AGRICULTURAL ENGINEERING.**

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**VETERINARY SCIENCE AND  
BACTERIOLOGY.**

T. W. Cave.

**CHEMISTRY.**

A. H. Burgess.  
L. W. Evans.  
W. S. Gray.  
H. Wormald (Mrs.).

**BOTANY.**

S. T. Parkinson.  
E. S. Salmon (Reader in Mycology,  
London University).  
J. C. Waller.  
H. Wormald.  
W. M. Ware.

**Library.**—About 4,000 standard Agricultural and Scientific Works. *Librarian* : C. H. Hooper.

Wye College Fruit Research Station, East Malling, Kent. *Director* : R. G. Hatton. *Manager* : J. Amos.

**ZOOLOGY AND ENTOMOLOGY.**

F. V. Theobald.  
S. G. Brade-Birks.  
C. A. W. Duffield.

**GEOLOGY.**

S. G. Brade-Birks.

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**IRONWORK FARRIERY AND  
WOODWORK.**

W. Wardley. J. A. Watson.

**WYOMING UNIVERSITY.** See LARAMIE.

**YALE UNIVERSITY.** See NEW HAVEN.

# INDEX TO NAMES

HIS MAJESTY THE KING, 21, 59, 118, 176, 185, 187, 189, 191  
H.R.H. THE PRINCE OF WALES, 57, 174, 176, 187, 189  
H.R.H. PRINCESS VICTORIA, 146

- AARONSON, L., 163  
Aase, Miss H. C., 277  
Abbe, T., 326  
Abbot, C. G., 331, 332  
Abbott, A., 182, 233  
Abbott, A. H., 309  
Abbott, Miss A. M., 248  
Abbott, C. W., 275  
Abbott, E., 50  
Abbott, F. F., 272  
Abbott, G. A., 110  
Abbott, H. V., 247  
Abbott, N., 235  
Abbott, T. J., 237  
Abbott, W. C., 227  
Abel, Miss A. H., 247  
Abel, J. J., 14  
Abel, Miss M. R., 175  
Abell, A. C., 276  
Abell, T. B., 145  
Abercrombie, J. R., 16  
Abercrombie, L., 144  
Abercrombie, L. P., 144  
Aberdare, The Rt. Hon.  
Lord, 59  
Abmad, M. B., 133  
Abrahams, I., 48  
Abrahams, J. B., 239  
Abrahamson, I., 237  
Abram, H. H., 168  
Abram, J. H., 145  
Abrams, A. W., 6  
Abrams, L., 300  
Acharya, A. T. R., 263  
Acharya, G. S., 8  
Acharyar, R. B. K. R.,  
72  
Acker, G. N., 326  
Ackermann, D. J., 304  
Ackland, The Rt. Hon.  
Sir F. Dyke, 147  
Ackland, W. R., 39  
Acland, T. D., 167  
Acton, H., 180  
Adam, D. S., 214  
Adam, J., 97, 105  
Adam, J. D., 117  
Adam, R. M., 96  
Adami, Col. J. G., 143  
Adams, A., 116, 117  
Adams, A. B., 245  
Adams, B., 124  
Adams, C. A., 55, 180,  
211  
Adams, C. D., 115  
Adams, C. H., 249  
Adams, E. P., 274  
Adams, F., 24  
Adams, F. D., 219  
Adams, Miss F. L., 297  
Adams, G. E., 171  
Adams, G. P., 23  
Adams, H. S., 88  
Adams, J., 150, 160  
Adams, J. C., 228  
Adams, J. F., 302  
Adams, J. J., 77  
Adams, J. M., 291  
Adams, J. Q., 123  
Adams, M., 281  
Adams, Mrs. M. J., 249  
Adams, P. E. H., 255  
Adams, R., 281  
Adams, R. L., 24  
Adams, S. S., 323  
Adams, T. D., 87  
Adams, T. S., 227  
Adams, W. A., 115  
Adams, W. B., 297  
Adams, W. G. S., 256,  
258  
Adams, W. S., 262  
Adamson, H. G., 166  
Adamson, J., 340  
Adamson, J. W., 150,  
156  
Adamson, R. S., 207  
Adams, W. I., 332  
Adcock, F. E., 49  
Addicot, L. J., 12  
Addis, T., 300  
Addison, J. T., 55, 56  
Addison, L. T., 312  
Addison, O. L., 174  
Adeney, W. E., 86  
Adkins, H. B., 201  
Adkins, J. C., 324  
Adler, C., 239, 265  
Adler, F., 233  
Adler, H., 16  
Adrian, E. D., 50  
Adshead, S. D., 151, 155  
Adsit, Miss R., 135  
Agar, W. E., 105, 213  
Agard, H. L., 341  
Agard, Miss J. S., 298  
Agee, H. P., 119  
Agger, E. E., 233  
Agharkar, S. P., 43  
Agnew, Jean, 42  
Ahmad, B., 13  
Ahmad, E. U., 6  
Ahmad, H., 13  
Ahmad, H., 44  
Ahmad, S., 44  
Aiken, Very Rev., C.,  
327  
Aikens, H. A., 69  
Aikman, J., 195  
Ainley, C. W., 279  
Ainsworth, G. C., 211  
Ainsworth, Lt.-Col. H.,  
131  
Aitken, H., 92  
Aitken, R. G., 223  
Aiyanger, K. S. V., 205  
Aiyyar, N. K., 205  
Aiyyer, K. C., 315  
Aiyyer, K. V., 315  
Aiyyer, P. A. S., 315  
Aiger, S. M., 205  
Akin, H. L., 250  
Akram, M. M., 280  
Albee, E., 122  
Albers, H., 33, 34  
Albert, C. D., 125  
Albert, H., 121  
Albiston, A. E., 215  
Albright, G. H., 74  
Alchin, Miss C. A., 198  
Alcock, Col. A., 176  
Alcock, H., 37  
Alcock, N. G., 121  
Alden, C. C., 41  
Alden, L. R., 325  
Alden, W. C., 329  
Alderson, V. C., 108  
Aldous, A. E., 329  
Aldrich, E. A., 33, 35  
Aldrich, J. M., 331  
Aldrich-Blake, Miss L.  
B., 174, 175  
Alexander, A. S., 202  
Alexander, C. B., 6  
Alexander, C. W. L., 79  
Alexander, F. H., 89  
Alexander, H. B., 143  
Alexander, L., 249  
Alexander, N. B., 195  
Alexander, S., 206  
Alexander, T., 83  
Alexander, W. H., 97  
Alexander, W. J., 309  
Alexander, W. M., 95  
Alford, J. M., 246  
Alford, Miss M., 161  
Ali, A., 81, 133  
Ali, M. A., 44  
Ali, M. H., 133  
Ali, M. Z., 8  
Ali, S. H., 44  
Ali, S. M., 6  
Allan, F. B., 309, 312  
Allan, G. E., 105, 107  
Allan, J., 178, 188  
Allard, L., 54  
Allard, R., 221, 227  
Allardin, R. E., 300  
Allbutt, Sir T. C., 47,  
188  
Allen, Archdeacon, 207  
Allen, A. A., 123, 125  
Allen, B. M., 137  
Allen, B. S., 236  
Allen, C. E., 200  
Allen, C. G., 300  
Allen, E. A., 34, 35  
Allen, E. J., 271  
Allen, Miss E. M., 52  
Allen, E. W., 98, 100  
Allen, F. G., 90  
Allen, F. H., 114  
Allen, Sir H. B., 212  
Allen, H. C., 137  
Allen, H. P., 257, 258  
Allen, H. S., 92  
Allen, H. W., 214  
Allen, J. A., 97, 240  
Allen, Capt. J. H., 204  
Allen, J. T., 23  
Allen, Miss K., 201  
Allen, M. S., 80  
Allen, P. S., 63, 257  
Allen, R. L., 37  
Allen, S. E., 341  
Allen, T. W., 256, 257  
Allen, W. F., 99  
Alley, J., 245  
Allen, G. B., 260  
Alling, A. N., 229  
Allinson, F. G., 275  
Allison, A., 106  
Allison, D. M., 318  
Allison, J., 284  
Allison, M., 288  
Allison, W. H., 114  
Allmand, A. J., 150, 157  
Almack, J. C., 99  
Almon, W. B., 113  
Almond, Miss E. M.,  
161  
Almy, J. E., 143  
Alsberg, C. L., 333, 336  
Alsop, R. H., 213  
Alstine, E. V., 319  
Alter, D., 137  
Altman, J. T., 225  
Altman, A. E., 114  
Altman, E. H., 83  
Altrocchi, R., 64  
Altshiller, N., 245  
Alvarez, A. C., 25  
Alvord, C. W., 317  
Ambruzzi, A., 210  
Ames, E. S., 63  
Ames, J. L., 34, 271  
Ames, J. S., 14  
Ames, L. A., 343  
Ames, O., 36, 56  
Ami, H. M., 254  
Amos, A., 51  
Amos, Miss F. R., 69  
Amos, J., 344  
Amos, Thyrza, W., 270  
Amy, A. F., 80  
Amyot, J. A., 309  
Anand, C., 131  
Anand, B. L., 133  
Ananikain, M. H., 117  
Ananten, D., 119  
Anderegg, F., 243  
Anderson, A., 103, 305  
Anderson, A. V. M., 213  
Anderson, C. R., 303  
Anderson, D. A., 302  
Anderson, E., 272  
Anderson, Miss E., 103,  
142  
Anderson, E. M., 182  
Anderson, E. X., 110  
Anderson, F. M., 115  
Anderson, G. P., 224  
Anderson, G. R., 310  
Anderson, H. B., 310  
Anderson, H. K., 46, 49  
Anderson, H. W., 319  
Anderson, J. A., 262  
Anderson, J. B., 114

- Anderson, J. B. M., 106  
 Anderson, J. G. C., 269  
 Anderson, J. M., 285  
 Anderson, J. W., 145  
 Anderson, Miss L., 253  
 Anderson, L. F., 77  
 Anderson, P. J., 1, 3  
 Anderson, R. J., 104  
 Anderson, R. P., 123  
 Anderson, W., 105, 145  
 Anderson, W. B., 206  
 Anderson, W. G., 228  
 Anderton, W. B., 207, 208  
 Andrew, A. E., 342  
 Andrew, R. C., 231  
 Andrewes, F. W., 151, 166  
 Andrews, A. I., 210  
 Andrews, A. L., 123  
 Andrews, B. R., 233  
 Andrews, C., 263  
 Andrews, C. E., 76  
 Andrews, C. McL., 227  
 Andrews, C. W., 178  
 Andrews, E. A., 14  
 Andrews, E. P., 123  
 Andrews, F. M., 30  
 Andrews, G. W., 249  
 Andrews, H. R., 169  
 Andrews, H. T., 158, 159  
 Andrews, Miss L. E., 246  
 Andrews, R. C., 240  
 Andrews, S. P., 8  
 Andrews, W. H., 252  
 Angell, F., 300  
 Angell, J. R., 62, 63  
 Angier, R. P., 227  
 Angus, C. F., 49  
 Angus, G. H. C., 291  
 Angus, H. B., 89  
 Angus, H. F., 190, 322  
 Angus, J. M., 59  
 Angus, R. W., 310  
 Annandale, N., 45  
 Annear, Miss, 132  
 Ansari, M. J., 44  
 Ansell, M. M., 118  
 Anstey, P., 32  
 Anthony, E. L., 302  
 Anthony, G. C., 210  
 Anthony, H. E., 240  
 Anthony, R. D., 104  
 Appel, R. G., 56  
 Appley, M. P., 260  
 Applegate, R. A., 270  
 Appleton, A. B., 51  
 Appleton, H. W., 292, 293  
 Arab, K. I., M. 44  
 Archuthnot, C. C., 68  
 Archambault, Sir H., 221, 222  
 Archambault, R., 221  
 Archer, Miss E., 298  
 Archer, J. C., 229  
 Archer, P., 324  
 Archer, R. L., 19  
 Archibald, E. H., 322  
 Archibald, J. G., 258  
 Archibald, Major R., 127  
 Archibald, Miss R. C., 275  
 Ardagh, E. G. R., 310  
 Arendt, M., 235  
 Arkley, L. M., 310  
 Arlitt, Mrs. A. H., 41  
 Armitage, B. F., 50  
 Armitage-Smith, G., 160  
 Armsby, H. P., 302, 303  
 Armstrong, A. C., 216  
 Armstrong, L., 257  
 Armstrong, E. C., 272  
 Armstrong, F. E., 273  
 Armstrong, G. E., 219  
 Armstrong, G. N., 80  
 Armstrong, H. E., 184, 190  
 Armstrong, H. F., 219  
 Armstrong, H. M., 303  
 Armstrong, W. G., 306  
 Armstrong, W. H. F., 10  
 Armstrong, W. P., 274  
 Armstrong-Jones, R., 166  
 Arneson, B. A., 80  
 Arnold, C., 268  
 Arnold, C. L., 76  
 Arnold, E. V., 19  
 Arnold, H. L., 250  
 Arnold, J. L., 236  
 Arnold, P., 196  
 Arnold, St. T., 275  
 Arnold, W. R., 55, 57  
 Arny, H. V., 234  
 Arps, G. F., 75  
 Arrow, G. J., 178  
 Artman, J. M., 64  
 Asakawa, K. I., 228  
 Aschman, F. T., 270  
 Aselin, E., 221  
 Ash, I. E., 12  
 Ashbaugh, E. J., 121  
 Ashbough, F. M., 26  
 Ashbrook, J. S., 270  
 Ashby, E., 5  
 Ashcombe, Rt. Hon. Lord, 112  
 Ashe, W. W., 338  
 Ashley, F. W., 334  
 Ashley, G. H., 339  
 Ashley, R. H., 211  
 Ashley, Sir W., 28, 29  
 Ashmore, W. H. H., 87  
 Ashmun, G. C., 63  
 Ashton, C. H., 137  
 Ashton, H., 322  
 Ashton, T. S., 29  
 Ashworth, J. H., 80, 96, 253  
 Asmus, H., 124  
 Asquith, C., 258  
 Athanase, Father, 135  
 Athearn, W. S., 33, 35  
 Atkin, The Rt. Hon. Lord Justice, 148  
 Atkin, E. G., 201  
 Atkins, H. G., 148, 152, 156  
 Atkins, J. W. H., 3  
 Atkins, K. N., 115  
 Atkins, W. R. G., 83  
 Atkinson, A. A., 12  
 Atkinson, C. T., 257  
 Atkinson, D., 207  
 Atkinson, R. L., 183  
 Attwell, S. W., 183  
 Atwater, Rev. A., 30  
 Attwell, W. J., 42  
 Atwood, W. W., 53  
 Aubert, A., 278  
 Aubry, H., 220, 221  
 Auclair, E., 278  
 Audas, J. W., 298  
 Auden, G. A., 29  
 Auger, C. E., 309  
 Aujangar, S. K., 204  
 Aul, G. N. R. A., 71  
 Aul, M. R. R. S., 71  
 Auld, S. J. M., 280  
 Ault, W. O., 33, 34  
 Aumonier, F. S., 180  
 Aurelio, W. G., 33  
 Aurner, Miss N. S., 120  
 Arousseau, M., 264  
 Aust, F. A., 203  
 Austen, H., 166  
 Austen, W., 125  
 Austin, C. B., 80  
 Austin, E. E., 178  
 Austin, F. E., 115  
 Austin, L. J., 169  
 Austrian, C. R., 15  
 Aveling, F., 155  
 Averill, F. L., 335  
 Avery, Miss E. J., 277  
 Avery, L. G., 197  
 Avery, S., 141, 251  
 Avey, A. E., 76  
 Avey, H. T., 8  
 Aylsworth, L. E., 143  
 Aymar, F. W., 237  
 Aynsley, Miss A. N., 163  
 Ayres, C. E., 10  
 Ayres, H. M., 233  
 Azhar-us-Sadain, 44  
 Aziz, M. A., 264  
 Azyangar, M. R. R. K. R., 204  
 Baade, H. J., 25  
 Babasinian, V. S., 27  
 Babbitt, A., 143  
 Babbitt, F. C., 116  
 Babbitt, H. Z., 318  
 Babbitt, I., 53  
 Babcock, E. B., 24, 236  
 Babcock, E. J., 110  
 Babcock, H. D., 262  
 Babcock, H. E., 125  
 Babcock, K. C., 317  
 Baber, Miss Z., 65  
 Babock, R. E., 66  
 Bachelie, C. V., 320  
 Bachman, Major J. T., 228  
 Back, I. L., 168  
 Backstrand, Miss L. J., 198  
 Bacon, B. W., 229, 262  
 Bacon, C. F., 236  
 Bacou, Clara, L., 18  
 Bacon, C. S., 319  
 Bacon, F., 60  
 Bacon, Miss G. M., 297  
 Bacon, G. P., 211  
 Bacon, J. W., 84  
 Bacon, L., 23  
 Bacon, Miss N., 199  
 Bacon, R. F., 269  
 Badock, S. H., 38  
 Badersher, J. A., 31  
 Badley, T. C., 200  
 Badolett, F. V., 100  
 Baekeland, L. H., 235  
 Baer, A. A., 141  
 Baer, W. S., 15  
 Baetjer, F. H., 15  
 Baetjer, W. A., 15  
 Bage, C., 213  
 Bagby, A., 17  
 Bagley, J. C., 15  
 Bagley, W. C., 232  
 Bagster, L. S., 37  
 Bagster-Collins, E. W., 232  
 Bahl, L. B. D., 132  
 Bailey, C., 257  
 Bailey, E. B., 182  
 Bailey, E. H. S., 137  
 Bailey, E. W., 319  
 Bailey, F. W., 286  
 Bailey, I. W., 36  
 Bailey, J., 179  
 Bailey, L. W., 102  
 Bailey, R. C., 166  
 Bailey, W. B., 227  
 Bailey, W. N., 28  
 Bailey, V., 337  
 Bailie, H. W., 22  
 Bailie, J. B., 2  
 Bailly, F. G., 94  
 Bailly, G. E., 196  
 Bain, Miss A., M. 81  
 Bain, A. W., 163  
 Bain, J. D., 310  
 Bain, P. B., 323  
 Bainbridge, F. A., 151, 166  
 Bainbridge, J. P., 212  
 Baines, A. M., 310  
 Baines, F. T., 139  
 Bair, F. H., 201  
 Baird, A. W., 99  
 Baird, H. S., 25  
 Baird, Capt. R. C., 99  
 Bairstow, G. E., 2  
 Baitsell, B. A., 228  
 Baizini, J. M., 210  
 Bake, L. E., 320  
 Baker, A., 309  
 Baker, A. B., 332  
 Baker, A. C., 338  
 Baker, A. T., 292  
 Baker, A. W. W., 83  
 Baker, A. W., 112  
 Baker, C. A., 323  
 Baker, C. F., 211  
 Baker, E. A., 152, 155  
 Baker, E. C. S., 192  
 Baker, E. L., 249  
 Baker, F. C., 320  
 Baker, F. G., 178  
 Baker, F. T., 232  
 Baker, G. E., 258  
 Baker, G. F., 53  
 Baker, G. S., 183  
 Baker, H. B., 165  
 Baker, H. F., 47  
 Baker, H. J., 211  
 Baker, I. O., 318  
 Baker, H. T., 18  
 Baker, J. B., 261  
 Baker, J. C., 104  
 Baker, J. L., 193  
 Baker, Miss M., 340  
 Baker, R. P., 120, 316  
 Baker, R. R., 291  
 Baker, R. T., 307  
 Baker, W. C., 124  
 Bakewell, C. M., 227  
 Bakewell, C. M., 250  
 Bakewell, P., 287  
 Bakhsh, M., 132  
 Bal, S. B., 43  
 Baldwin, B. T., 120  
 Baldwin, C. S., 232  
 Baldwin, E. C., 318  
 Baldwin, J. P., 271  
 Baldwin, J. M., 298  
 Baldwin, Miss M., 145  
 Balfour, Rt. Hon. A. J., 91, 182  
 Balfour, I. B., 91, 96  
 Ball, L. A. N., 132  
 Ball, C. R., 337  
 Ball, L., 29  
 Ball, Miss M., 297  
 Ball, T. R., 14  
 Ball, W. G., 166  
 Ball, W. V., 157



- Ballance, Sir C. A., 148, 167  
 Ballantine, H. W., 317, 319  
 Ballantine, Lt.-Col. J., 114  
 Ballantyne, J. W., 93  
 Ballard, C. W., 235  
 Ballard, Miss A. W., 233  
 Ballard, E., 72  
 Ballard, W. C., 125  
 Balleid, C. H., 248  
 Ballou, H. A., 21  
 Balmer, W. T., 101  
 Balsillie, D., 92  
 Balz, E. C. C., 144  
 Balz, E. H., 269  
 Bamber, J. R., 40  
 Bamber, Miss R. C., 145  
 Bamberger, Miss F. E., 14  
 Bamford, A. J., 74  
 Bancroft, E. C., 253  
 Bancroft, J. A., 219  
 Bancroft, W. D., 122  
 Banerjee, S., 43  
 Banerji, A. K., 45  
 Banerji, B. B., 20  
 Banerji, C. J., 20  
 Banerji, K. L., 45  
 Banerji, Hon. Justice Sir P. C., 7  
 Banerji, P. K., 20  
 Banerji, R. C., 20  
 Banerji, S. S., 20, 20  
 Bangham, D. H., 207  
 Banister, J. M., 251  
 Banker, H. J., 72  
 Bannatyne, C. A., 95  
 Bannerjee, G. N., 200  
 Bannerji, A., 126  
 Bannister, J. M., 142  
 Banta, A. M., 72  
 Bantock, G., 29  
 Barbeau, C. M., 254  
 Barber, C. A., 72  
 Barber, C. D., 180  
 Barber, E. A., 257  
 Barber, G. E., 143  
 Barber, P., 163  
 Barber, P. E., 293  
 Barber, H. W., 167  
 Barber, W. A., 237  
 Barbier, J. L. A., 3  
 Barbier, P., 60, 140  
 Barbour, 272  
 Barbour, Miss A. L., 247  
 Barbour, A. H. F., 93  
 Barbour, Miss C., 143  
 Barbour, C. A., 182  
 Barbour, E. H., 143  
 Barbour, H. G., 229  
 Barbour, W. T., 229  
 Barbour, A. H. F., 94  
 Barclay, J., 256, 259  
 Barclay-Smith, E., 150, 157  
 Barck, C., 286  
 Barcroft, J., 47, 49  
 Bardeen, C. R., 203  
 Bardsley, G. H., 74  
 Bareis, Miss G. M., 76  
 Barff, H. E., 305  
 Barger, G., 92  
 Baril, G., 220  
 Barkan, H., 301  
 Barker, A. H., 156  
 Barker, B. T. P., 39  
 Barker, E., 253  
 Barker, E. E., 124  
 Barker, F. D., 143  
 Barker, H., 92  
 Barker, H. W., 204, 314  
 Barker, J. M., 34  
 Barker, L. F., 14  
 Barker, S. G., 315  
 Barker, Miss S. M., 98  
 Barker, T. V., 257, 259  
 Barkle, C. G., 91  
 Barling, Sir G., 28  
 Barling, S., 29  
 Barlow, G., 28  
 Barlow, R., 209  
 Barnaby, J., 214  
 Barnard, E. E., 63  
 Barnard, F., 163  
 Barnard, Sir F. S., 322  
 Barnard, F. T., 276  
 Barnard, J., 339  
 Barnard, J. E., 157, 190  
 Barnard, K. H., 58  
 Barnard, W. N., 125  
 Barnes, A. E., 293  
 Barnes, A. F., 287  
 Barnes, F. A., 125  
 Barnes, J., 40  
 Barnes, N. W., 64, 65  
 Barnes, R. M., 67  
 Barnes, W. E., 47  
 Barnett, Claribel R., 334  
 Barnett, G. D. F., 301  
 Barnett, G. E., 14  
 Barnett, J. D., 99, 196  
 Barnett, L. D., 177  
 Barnett, L. E., 87  
 Barnett, R. J., 276  
 Barney, S. E., 228  
 Barnhart, J. H., 244  
 Barnum, Miss M., 35  
 Barr, R. A., 225  
 Barra, P. E., 31  
 Barratt, A. H., 29  
 Barre, H. W., 67  
 Barret, L. C., 116, 241  
 Barrett, J. T., 24  
 Barrett, Sir J. W., 213  
 Barrett, Lady, 175  
 Barrett, Miss M. G., 159  
 Barrett, S. B., 64  
 Barrett-Lennard, F., 159  
 Barrie, Bailie, 94  
 Barrie, Sir J. M., 234  
 Barrington, F. J. F., 171  
 Barrington-Lard, L. E., 174  
 Barris, J. D., 166  
 Barron, E. W., 211  
 Barron, J. H., 125  
 Barrow, F., 159  
 Barrows, D. P., 23  
 Barrows, H. H., 63  
 Barrows, Miss S. T., 76  
 Barrows, W. E., 253  
 Barrows, W. M., 76  
 Barrs, A. G., 140  
 Barrus, M. F., 124  
 Barry, C. K., 249  
 Barry, D. T., 78  
 Barry, F., 236  
 Barry, F. R., 257  
 Barshed, Miss E. R., 298  
 Bars, A. F., 322  
 Barstow, J. M., 250  
 Bartelmez, 64  
 Barth, I. V., 287  
 Bartholomew, A. T., 51  
 Bartholomew, E. T., 201  
 Bartlett, D., 267  
 Bartlett, E. J., 115  
 Bartlett, G. B., 169  
 Bartlett, J. B., 262  
 Bartlett, J. M., 253  
 Bartlett, P., 115  
 Bartlett, R. L., 27  
 Bartlett, W. M., 288  
 Bartmann, A. B., 304  
 Bartoli, A., 321  
 Barton, B. H., 86  
 Barton, F. A., 123  
 Barton, G. A., 40  
 Barton, G. T., 163  
 Barton, H., 220  
 Barton, H. J., 317  
 Barton, R., 17  
 Barton, W. M., 323  
 Bartow, E., 317  
 Bartsch, P., 325, 331  
 Barus, C., 275  
 Barwell, H. S., 168  
 Bascom, Miss F., 40  
 Base, D., 17  
 Bashall, F. H., 51  
 Baskerville, C. R., 63  
 Baskin, E., 17  
 Basore, J. W., 272  
 Bassett, G. C., 263  
 Bassett, H., 280  
 Bassett, J. S., 247  
 Bassett, L. E., 299  
 Bassett-Smith, Surgeon-Capt. P. W., 177  
 Bassler, R. S., 325, 331, 339  
 Basson, J., 304  
 Bastable, C. F., 83  
 Bastedo, W. A., 235  
 Bastin, E. S., 63, 329  
 Basu, B. K., 126  
 Basu, D., 45  
 Basu, M. N., 295  
 Basu, S. C., 45  
 Basye, A. H., 115  
 Batchelder, C. H., 253  
 Batchelder, F. P., 34, 35  
 Batchelor, L. D., 24  
 Batchelor, W. C., 316  
 Bateman, A. M., 228  
 Bateman, W. G., 217  
 Bates, Miss E., 247  
 Bates, E. S., 99  
 Bates, F. G., 31  
 Bates, G. A., 211  
 Bates, H. M., 55  
 Bates, J. E., 324  
 Bates, W. H., 120  
 Bateson, W., 194  
 Bather, F. A., 178  
 Batho, C., 219  
 Batt, F. R., 145  
 Batt, H. E., 312  
 Batten, G. B., 194  
 Batten, L. W., 238  
 Battley, Miss L., 137  
 Battle, W. H., 167  
 Batts, R. L., 301  
 Battye, J. S., 263  
 Bandoulin, J., 221  
 Bauer, F. C., 319  
 Bauer, L. A., 332  
 Baugh, D., 267  
 Baulne, A. S., 221  
 Baumgartner, W. J., 137  
 Baumgardt, M. F., 198  
 Baur, P. V. C., 228  
 Bawtree, B. F., 181  
 Baxandall, F. E., 51  
 Baxter, A. H., 101, 62  
 Baxter, F. H. A., 219  
 Baxter, G. P., 53, 56  
 Baxter, J. S., 21, 22, 83  
 Baxter, Miss O. M., 117  
 Bay, R. P., 17  
 Baycraft, J. B., 60  
 Baylay, Miss A. M., 194  
 Bayley, W. S., 317  
 Baylis, H. A., 178  
 Bayliss, 184  
 Bayliss, W. M., 151, 155  
 Bayliss-Elliott, Mrs. J., 28  
 Bayne-Jones, S., 15  
 Baynes, R. E., 256, 259  
 Baynes, N. H., 152, 155  
 Bazett, H. C., 258  
 Beach, B., 203  
 Beach, Miss D., 253  
 Beach, F. E., 228  
 Beach, H. P., 229  
 Beach, J. K., 229  
 Beach, W. G., 276  
 Beadles, C. F., 167  
 Beal, A. C., 124  
 Beal, G. D., 318  
 Beal, J. H., 270  
 Beal, N. H., 195  
 Beale, J. H., 55, 305  
 Beale, Miss H. M., 70  
 Bean, B. A., 331  
 Bean, E. F., 201  
 Bean, H. C., 99  
 Bean, W. J., 195  
 Beans, H. T., 234  
 Bear, F. E., 76  
 Beard, J., 92  
 Beard, J. G., 61  
 Beardsley, W. A., 18  
 Beare, T. H., 91  
 Beasley, H., 264  
 Beattie, J. C., 57  
 Beattie, J. M., 144  
 Beattie, R., 206  
 Beattie, R. K., 337  
 Beattie, T., 89  
 Beatty, A., 201  
 Beatty, H. M., 76  
 Beatty, R. T., 22  
 Beatty, S., 309  
 Beatty, W., 83  
 Beauchamp, A., 221  
 Beauprand-Champagne, A., 221  
 Beanpré, E., 221  
 Beaven, M. L. R., 248  
 Beaver, J. L., 27  
 Beazley, C. R., 29  
 Beazley, J. D., 254  
 Bechdel, S. I., 303  
 Bechtel, J. E., 303  
 Beck, Mrs. A. L., 100  
 Beck, E. J., 80  
 Beck, E. L., 76  
 Beck, G. C., 27  
 Beck, H. G., 16  
 Beck, J. B., 41  
 Beck, J. C., 319  
 Beck, Hon. N. D. D., 96  
 Becker, A. J., 110  
 Becker, C., 123  
 Becker, H., 326  
 Becker, H. A., 68  
 Becker, S. A., 27  
 Beckett, The Hon. R. E., 139  
 Beckett, S. H., 24  
 Becknell, G. G., 268  
 Beckwith, Mrs. E. R., 69  
 Beckwith, 272  
 Beckwith, H., 74



- Bédard, A., 278  
 Beddard, A. P., 167, 168  
 Bedell, F., 122  
 Bedford, Duke of, 176, 187  
 Bedford, Capt. H. W., 127  
 Bedford, S. E. W., 63  
 Bedson, P. P., 89  
 Beede, J. W., 30  
 Beemer, N. H., 309  
 Beers, Miss C. V., 197  
 Beeson, C. H., 63  
 Beeson, L. W., 331  
 Beetle, R. D., 115  
 Beggs, G. E., 274  
 Bégin, L. N., 277  
 Behrend, E. B., 323  
 Beilby, Sir G., 106  
 Beilby, Sir G. T., 182  
 Bek, W. G., 110  
 Belas, P. E., 79  
 Belfour, A. O., 22  
 Belgrave, W. N. C., 128  
 Belhaven and Stenton, the Lord, 187  
 Belinfante, L. L., 186  
 Bell, A. J., 309  
 Bell, C. F., 258  
 Bell, H. I., 177  
 Bell, J., 258  
 Bell, J. F., 99  
 Bell, J. M., 61  
 Bell, J. W., 219  
 Bell, R. T., 105  
 Bell, R. W., 67  
 Bell, T. D., 180  
 Bell, W. B., 145  
 Bell, W. H., 58  
 Bellars, A. E., 279  
 Bellatty, C. E., 34  
 Belleau, E., 278  
 Bellhouse, H. H., 208  
 Bellis, A. E., 108, 134  
 Bellisle, H. S., 312  
 Bellows, H. P., 34  
 Belote, T. T., 331  
 Belser, F. C., 286  
 Belting, P. E., 318  
 Bombower, W., 8  
 Bemis, S. F., 74  
 Benade, J. M., 131  
 Bender, A. P., 58  
 Bender, H. H., 272  
 Benicke, P. V. M., 258  
 Benedict, F. G., 36  
 Benedict, G. W., 275  
 Benedict, J. E., 331  
 Benedict, S. R., 123  
 Benedict, Miss S. R., 247  
 Beng-Ough, E. J., 313  
 Bengtson, Miss A., 336  
 Bengtson, N. A., 143  
 Benham, B., 51  
 Benham, E. W., 4  
 Benham, W. B., 87  
 Benians, E. A., 50  
 Benjamin, E. W., 124  
 Benjamin, G. G., 120  
 Benjamin, M., 332  
 Benkendorf, G. H. W., 203  
 Bennett, C. A., 228  
 Bennett, C. E., 10, 122  
 Bennett, E., 202  
 Bennett, G. E., 15  
 Bennett, H. S., 131  
 Bennett, J., 207  
 Bennett, Mrs. M. U., 249  
 Bennett, P., 107  
 Bennett, W. E., 29  
 Bennett, W. H., 207  
 Bennette, H. W. P., 145  
 Benoit, E., 221  
 Bensley, B. A., 309  
 Bensley, R. R., 64  
 Benson, A. C., 60  
 Benson, Miss C. C., 310  
 Benson, J. B., 154  
 Benson, M. J., 98, 150  
 Benson, R. L., 99  
 Benson, W. N., 87  
 Bentley, C., 279  
 Bentley, F. L., 303  
 Bentley, F. W., 110  
 Bentley, J., 124  
 Bentley, M., 317  
 Bentley, R. C., 143  
 Bentley, W. B., 12  
 Bently, B. H., 293  
 Benton, A. B., 198  
 Benton, E. J., 68  
 Benyon, J. H., 280  
 Berdan, J. M., 228  
 Berdy, O., 156  
 Berger, F. A., 287  
 Bergeron, O., 278  
 Bergin, O., 85  
 Bergin, W., 78  
 Berggren, A. E., 202  
 Berkeley, C., 173  
 Berkey, C. P., 234  
 Berkley, H. J., 15  
 Bernard, Most Rev. J. H., 82, 87  
 Bernard, W. S., 61  
 Bernardini, Rt. Rev. F., 327  
 Bernbaum, E., 317  
 Bernhardt, F. J., 320  
 Bernhard, J. W., 326  
 Bernier, A., 220  
 Bernier, Ls. M. J. A., 278  
 Bernstein, B. A., 24  
 Bernston, H. S., 323, 326  
 Berry, A., 47, 49  
 Berry, A. J., 51  
 Berry, E. W., 14  
 Berry, G. R., 114  
 Berry, J., 175  
 Berry, L. G., 30  
 Berry, Mrs. M. D., 175  
 Berry, R. A., 108, 208  
 Berry, R. E., 134  
 Berry, R. J. A., 212  
 Berry, Miss S., 10  
 Berthon, H. E., 256  
 Berwick, W. E. H., 19  
 Besharatullah, 44  
 Besselaa, R. G., 267  
 Bethune, C. J. S., 111  
 Bethune-Baker, J. F., 47  
 Betten, C., 124  
 Bevan, A. A., 48, 51  
 Bevan, A. C., 217  
 Bevan, A. D., 64  
 Beveridge, Sir W. H., 147, 162  
 Bevier, Miss I., 319  
 Bevier, L., 226  
 Bewer, J. A., 239  
 Bewley, H., 83  
 Bewley, H. T., 85  
 Bews, J. W., 267  
 Beyne, M. L., 121  
 Bezdek, H., 302  
 Bhagvat, N. K., 32  
 Bhakay, G. N., 200  
 Bhandarker, S. R., 43  
 Bhasin, A. N., 133  
 Bhattacharya, S., 81  
 Bhatia, K. L., 10  
 Bhatt, V. T., 27  
 Bhattacharji, J., 45  
 Bhattacharya, K. P., 44  
 Bhattacharya, S. C., 132  
 Bhattacharyya, A. K., 292  
 Bhattacharyya, D. K., 263  
 Bhide, H. B., 27  
 Bibb, A. B., 325, 326  
 Bickers, W., 293  
 Bickersteth, R. A., 145  
 Bickerton, T. H., 145  
 Bickley, J. H., 27  
 Bickmore, H. C., 163  
 Bidder, H. J., 259  
 Biddle, J. F., 270  
 Bideleux, Miss H., 162  
 Bidwell, C. C., 123  
 Bidwell, P. W., 228  
 Bieber, R. P., 287  
 Biermann, E. H., 31  
 Biffen, R. H., 48, 189  
 Bigelow, A. H., 250  
 Bigelow, H. A., 64  
 Bigelow, H. E., 233  
 Bigelow, Miss H. W., 247  
 Bigelow, L. L., 76  
 Bigelow, M. A., 233  
 Bigelow, M. M., 34, 35  
 Bigelow, W., 9  
 Biggs, H. M., 237  
 Bigongiari, D., 233  
 Bilderback, J. B., 99  
 Biles, Sir J. H., 105  
 Biles, Miss M. E., 197  
 Bill, A. H., 68  
 Bill, C. P., 68  
 Bill, E. G., 115  
 Billings, F., 64  
 Bills, Miss M. A., 137  
 Bilsborrow, J. D., 319  
 Bilson, J., 191  
 Binder, R. M., 237  
 Bingham, E. C., 90  
 Bingham, G. A., 310  
 Bingham, H., 227, 230  
 Bingham, J. W., 301  
 Binyon, R. L., 177  
 Bioletti, F. T., 24  
 Birch, G. S., 8  
 Birch, R. R., 124  
 Birch, J. N., 292  
 Bird, F. D., 212  
 Bird, J. T. J., 237  
 Bird, W. H. B., 183  
 Birdseye, C. H., 329  
 Birge, E. A., 200  
 Birge, E. G., 121  
 Birkett, G. A., 292  
 Bitt, Hrke, S., 219  
 Birkhoff, G. D., 54  
 Birney, L. J., 33, 34  
 Birnie, A., 2  
 Birtwistle, G., 49  
 Bishop, A. L., 227  
 Bishop, C. O., 287  
 Bisson, C. S., 279  
 Bishop, C. T., 228  
 Bishop, F. L., 288  
 Bissell, J. B., 237  
 Bissell, K. McL., 197  
 Bithell, J., 159  
 Bixby, F. L., 281  
 Bizzell, J. A., 124  
 Bjorkhagen, Im., 156  
 Blachford, J. V., 39  
 Blachly, F. F., 245  
 Black, Miss A. K., 33  
 Black, C. R., 137  
 Black, E. C., 33, 35  
 Black, H., 239  
 Black, H. H., 196  
 Black, J. G., 183  
 Black, Miss R. C., 161  
 Black, R. M., 268  
 Black, W. W., 31  
 Blackadder, W., 107  
 Blackader, A. D., 219  
 Blacker, G., 171  
 Blackett, W. A. M., 213  
 Blackfan, K. D., 15  
 Blacklaw, A., 2  
 Blackledge, J., 198  
 Blacklock, B., 147  
 Blackman, F. F., 48  
 Blackman, F. H., 165  
 Blackmar, V. W., 136  
 Blackmore, B., 125  
 Blackwelder, E., 300  
 Blackwood, W. C., 111  
 Blagden, C. O., 152  
 Blaine, R. G., 323  
 Blair, J. C., 319  
 Blair, K. G., 178  
 Blair, V. P., 288  
 Blair, W. R., 238  
 Blair, W. F., 269  
 Blaisdell, F. E., 300  
 Blaisdell, T. C., 301  
 Blaisdell, T. C., jr., 8  
 Blake, C. F., 16  
 Blake, F. C., 75, 78  
 Blake, F. R., 14  
 Blake, H. C., 17  
 Blake, I. H., 253  
 Blake, J. B., 54  
 Blake, J. D., 16  
 Blake, R. W., 26  
 Blakeley, Miss B. E., 298  
 Blaker, E., 123  
 Blakeslee, A. F., 72  
 Blakeslee, G. H., 343  
 Blakeston, H. E. D., 255  
 Blakey, H. B., 76  
 Blakiston, H. E. D., 259  
 Blanchard, F. M., 64  
 Bland, R. J., 170  
 Bland-Sutton, Sir J., 167, 173  
 Blanton, S., 201  
 Blasdale, W. C., 25  
 Blasingame, R. U., 302  
 Blau, M. F., 272  
 Blease, W. L., 145  
 Bleazby, R., 264  
 Bleile, A. M., 76  
 Blesh, A. L., 246  
 Bleyer, W. G., 200  
 Blichfeldt, H. F., 300  
 Bligh, J. M., 145  
 Bliss, C. P., 236  
 Bliss, G. A., 63  
 Bliss, Miss L. A., 247  
 Bliss, R. W., 142, 251  
 Bliss, W. J. A., 14  
 Block, J., 137  
 Block, Miss K. S., 98  
 Blodgett, F. B., 238  
 Blodgett, F. M., 125  
 Blodgett, W. K., 125  
 Blommaert, W., 304  
 Blondheim, D. S., 14  
 Blood, M., 190

# INDEX TO NAMES

- Bloomfield, A. L., 15  
 Bloomfield, L., 318  
 Bloomfield, M., 14  
 Bloor, W. R., 23  
 Blue, R., 335  
 Blum, S., 24  
 Blumenberg, J. H., 198  
 Blumenschein, F. J., 270  
 Blumer, G., 227, 229  
 Blunt, H. W., 259  
 Blunt, Miss K., 63  
 Blunt, T. G. R., 67  
 Boardman, H. P., 281  
 Boardman, H. S., 252, 253  
 Boardman, W. W., 300  
 Boas, F., 332  
 Boaz, F., 233  
 Bobbitt, J. F., 65  
 Bochart, W. C., 279  
 Bode, B. H., 317  
 Boden, F. H., 29  
 Bodmer, H. S., 109  
 Boesche, A. W., 122  
 Bogardus, E. S., 196  
 Bogart, E. L., 318  
 Bogert, M. T., 233  
 Bogle, R. B., 225  
 Boggs, T. H., 322  
 Boggs, T. R., 15  
 Bohan, P. T., 137  
 Bohane, E., 86  
 Bohannan, R. D., 75  
 Bohle, H., 58  
 Bohler, J. F., 276  
 Bohn, W. F., 248  
 Bohstedt, G., 203  
 Boller, W. F., 121  
 Boillot, F. F., 38  
 Boisliniere, L., 286  
 Bolam, H. W., 105  
 Bolam, R. A., 89  
 Boland, F. J., 246  
 Boland, R. G., 246  
 Boller, P., 197  
 Bolles E. C., 210  
 Bolling, G. M., 75  
 Bolser, C. E., 115  
 Bolton, C., 171  
 Bolton, E. R., 193  
 Bolton, H., 39  
 Bolton, H. E., 23  
 Bolton, J. S., 140  
 Boltwood, B. B., 228  
 Bolus, Mrs. F., 58  
 Bomford, T., 264  
 Bond, H., 49  
 Bond, Miss M., 175  
 Bond, P. A., 120  
 Bond, R. W., 248  
 Bone, W. A., 165  
 Bone, Miss W. A., 293  
 Bonham, M. L., 71  
 Bonham, W. B., 55  
 Bonine, C. A., 302  
 Bonner, A., 289  
 Bonner, R. J., 63  
 Bonney, V., 173  
 Bonsall, Miss, 165  
 Bonser, F. G., 232  
 Bontin, J., 222  
 Boodgood, J. C., 15  
 Boodle, L. A., 195  
 Book, W. F., 30, 31  
 Booker, J. M., 61  
 Bookmiller, E. V., 324  
 Boole-Stott, A., 144  
 Boon, A. A., 94  
 Boone, R. G., 26  
 Boone, W., 100  
 Boord, C. E., 76  
 Booth, C. O., 270  
 Booth, S. R., 4  
 Borchard, E. M., 229  
 Bordeaux, E. F. J., 213  
 Borden, B. C., 283  
 Borden, C. F., 327  
 Borden, D. Le R., 326  
 Borden, Miss G. A., 97  
 Borden, W. C., 325, 328  
 Bordwell, P., 121  
 Borenius, T., 155  
 Borger, R. L., 12  
 Borgerhoff, J. L., 69  
 Borgmeyer, C. J., 286  
 Boring, Miss A., 203  
 Boring, E. G., 343  
 Boring, O. K., 80  
 Boring, W. A., 232  
 Borland, A. A., 302  
 Bonadaile, L. A., 48, 51  
 Borthwick, M. G., 196  
 Borthwick, Miss P. M., 81  
 Borthwick, T., 4  
 Bosanquet, R. C., 144  
 Bosanquet, W. C., 170  
 Bose, A. C., 43  
 Bose, A. M., 43  
 Bose, H. K., 45  
 Bose, H. T., 8  
 Bose, N. N., 200  
 Bose, S. C., 132  
 Bosman, A. M., 272  
 Boss, B., 6  
 Bossard, J. H. S., 90  
 Bostwick, C. D., 122  
 Boswell, A. B., 144  
 Boswell, M. C., 310  
 Boswell, P. G. H., 144  
 Bosworth, 172  
 Bosworth, E. I., 248, 249  
 Botkin, C. W., 108  
 Bott, Capt. R. H., 131  
 Bottomley, L., 207  
 Bottomley, W. B., 150, 157  
 Boucher, C. S., 76  
 Boucher, S., 221  
 Boucke, O. F., 302  
 Bouffard, J., 278  
 Boulden, F., 293  
 Boulenger, C. L., 28  
 Boulenger, E. G., 187  
 Boulenger, G. A., 178  
 Boulton, E. S., 39, 40  
 Boulton, W. S., 28  
 Bourdillon, R. B., 257  
 Bourgeois, B., 221  
 Bourgouin, L., 221  
 Bourland, Miss C. B., 247  
 Bourland, B. P., 68  
 Bourne, G. C., 256, 257  
 Bourne, H. E., 69  
 Bousfield, W. R., 194  
 Boutell, Hon. H. S., 324  
 Boutelle, C. A., 125  
 Bouton, A. L., 236  
 Bouton, C. L., 54  
 Boutroux, P. L., 274  
 Boutwell, P. W., 203  
 Bovard, D. Jr., 235  
 Bovard, G. F., 196  
 Bovard, J. F., 99  
 Boves, J. W., 326  
 Boving, P. A., 322  
 Bowen, E., 27  
 Bowen, J. E., 157  
 Bowen, W. S., 326  
 Bowen, B. L., 75  
 Bower, F. O., 96, 105  
 Bowers, F. G., 97  
 Bowie, W., 328  
 Bowlby, Sir A., 166, 167  
 Bowler, J. W., 115  
 Bowles, C. W., 109  
 Bowles, E. P., 311  
 Bowles, S. W., 323  
 Bowles, T., H. 180  
 Bowley, A. L., 151, 162  
 Bowman, A. A., 272  
 Bowman, D., 163  
 Bowman, Ethel, 18  
 Bowman, F. M., 302  
 Bowman, F., 209  
 Bowman, H. L., 256, 258  
 Bowman, H. M., 34, 35  
 Bowman, I., 242  
 Bowman, T., 257  
 Bownocker, J. A., 75  
 Bowsfield, W. R., 148  
 Bowyer, W., 180  
 Box, C. R., 166  
 Box, G. H., 157  
 Box, Canon G. N., 156  
 Boxwell, W., 85  
 Boyce, W. E., 14  
 Boycott, A. E., 151, 171, 283  
 Boyd, A. R., 334  
 Boyd, D. R., 297  
 Boyd, F. D., 92  
 Boyd, H., 260  
 Boyd, J. E., 77  
 Boyd, S. A., 157  
 Poyd, W., 105  
 Boyden, E. A., 54  
 Boyer, W. H., 100  
 Boylan, P., 85  
 Boyle, A. C., Jr., 184  
 Boyle, H. E. G., 166  
 Boyle, J. E., 124  
 Boyle, R. F., 97  
 Boyle, T. S., 342  
 Boyle, W. W., 268  
 Boynton, A. J., 136  
 Boynton, C. H., 238  
 Boynton, K. R., 244  
 Boynton, P. H., 63  
 Boynton, W. P., 99  
 Boys-Smith, W. L., 87  
 Boyton, N., 324  
 Bozell, H. V., 228  
 Brabant, F. G., 260  
 Brabrook, Sir E., 184  
 Brace, D., 24  
 Brack, C. E., 16  
 Bracken, J., 291  
 Brackett, C. A., 54  
 Brackett, E. E., 141  
 Brackett, E. G., 54  
 Brackett, F. S., 262  
 Brackett, H. D., 343  
 Brackett, R., 115  
 Bradbury, J. B., 47  
 Brade-Birks, S. G., 344  
 Bradford, Harriett, 299  
 Bradford, H. E., 142  
 Bradford, J. N., 75  
 Bradford, Sir J. R., 171  
 Bradley, C. L., 258, 259  
 Bradley, F. H., 257  
 Bradley, H., 259  
 Bradley, H. C., 203  
 Bradley, J. C., 123, 124  
 Bradley, O. C., 92, 94, 95  
 Bradshaw, J. C., 67  
 Bradshaw, Miss M., 247  
 Brady, E. P., 288  
 Brady, J. E., 247  
 Brady, J. M., 286  
 Bragg, Miss A., 246  
 Bragg, W. H., 151, 155, 306  
 Bragg, W. L., 206  
 Brakspear, H., 191  
 Braman, Miss W. W., 303  
 Bramble, F., 17  
 Bramholtz, G. E. K., 206  
 Bramwell, E., 93  
 Branch, C. E. K., 25  
 Branch, M. W., 200  
 Brand, Hon. R. H., 258  
 Brandenburg, E. C., 326  
 Brandin, L. M., 150, 155  
 Brandt, H. C. G., 71  
 Brandt, J. G., 136  
 Branham, J. H., 16  
 Bransby, C., 24  
 Branson, E. C., 61  
 Branson, W. P. S., 175  
 Brash, J. C., 29  
 Braun, B. F., 253  
 Braun, W. A., 232  
 Brauner, O. M., 125  
 Brauholtz, E. G. W., 48  
 Brauholtz, H. J., 178  
 Braunton, E., 196  
 Brautlecht, C. A., 253  
 Bray, W. C., 25  
 Brayton, Ada M., 262  
 Breasted, J. H., 63  
 Brebner, Miss M., 3  
 Breck, J., 241  
 Breckenridge, L. P., 228  
 Breckenridge, W. K., 249  
 Breckinridge, Miss S. P., 64  
 Breed, D. R., 270  
 Breed, F. S., 65  
 Breed, R. S., 104  
 Breene, F. T., 121  
 Breitenbecher, J. J., 69  
 Breitweiser, J. V., 26  
 Bremer, J. L., 54  
 Brench, G. R., 139  
 Brenchley, Miss W. E., 283  
 Brend, W. A., 170  
 Breneman, P. B., 303  
 Brenke, W. C., 143  
 Brennan, H., 105  
 Brennan, H. C., 92  
 Brent, H., 16  
 Breton, J. Le G., 305  
 Breton, W. W., 103  
 Bressler, R. G., 302  
 Breton, E. H., 248  
 Brett, G. S., 309  
 Brett, Hon. R. G., 96  
 Bretz, J. H., 64  
 Bretz, J. P., 122  
 Breul, K., 48  
 Breurs, J. T., 207  
 Brewer, Miss S. L., 125  
 Brewer, T. H., 245  
 Brewis, G. R., 260  
 Brewis, N. T., 93  
 Brewster, C. M., 276  
 Brewster, W. T., 232  
 Bribner, J., 308  
 Bridge, Sir F., 148, 151  
 Bridge, J. C., 89  
 Bridge, W. G., 211

- Bridges, Miss E. F., 196  
 Bridges, E. L., 142, 251  
 Bridges, J. E., 256  
 Bridges, J. W., 76, 245  
 Bridges, W., 251  
 Bridges, W. O., 142  
 Bridgman, E. W., 15  
 Bridgman, H. L., 6  
 Bridgman, Miss O. L., 24  
 Bridgman, P. W., 54  
 Brierley, J. L., 259  
 Brierley, W. B., 194, 283  
 Briggs, C. C. D., 236  
 Briggs, C. E., 68  
 Briggs, G. M., 203  
 Briggs, H., 94, 145  
 Briggs, J. E., 34  
 Briggs, Le B. R., 53, 56  
 Briggs, T. H., 233  
 Briggs, T. R., 123  
 Briggs, W. D., 300  
 Brigham, A. P., 114  
 Brigham, C. S., 344  
 Brigham, W. T., 119  
 Bright, J. W., 14  
 Brightman, A. C., 68  
 Brightman, E. H., 33  
 Brightman, E. S., 35  
 Brightman, F. E., 258  
 Brill, I. C., 99  
 Brill, N. E., 234  
 Brincker, J. A. H., 174  
 Brindley, H. H., 49  
 Brinkhurst, J. H., 15  
 Brink, R. W., 92  
 Brinkworth, J. H., 167  
 Briones, C., 324  
 Brinley, J. R., 244  
 Brisco, N. A., 120  
 Briscoe, J. C., 172  
 Briscoe, J. M., 253  
 Briscoe, Mrs. R. L., 17  
 Brison, Miss C. T., 12  
 Bristol, C. L., 236  
 Bristol, G. P., 122  
 Bristow, H. G., 286  
 Britton, Miss E. G., 244  
 Britton, N. L., 244  
 Brittain, W. G., 163  
 Broad, C. D., 284  
 Broad, W. H., 145  
 Broadbent, Sir. J., 173  
 Broadfoot, R. C., 71  
 Broadhurst, Miss J., 234  
 Broadus, E. K., 97  
 Broady, J. H., 141  
 Brochu, M. D., 278  
 Brock, R. W., 322  
 Brockbank, E. M., 207  
 Brockett, P., 331, 334  
 Brockwell, C. A. B., 219  
 Broderick, E. M., 303  
 Brodesky, S., 39  
 Brodeur, A. G., 23  
 Brodie, J. W., 94  
 Brodie, R. H., 183  
 Brodsley, G., 208  
 Broedel, M., 15  
 Brokaw, W. H., 142  
 Bromberg, P., 225  
 Bromhead, C. E. N., 182  
 Bromley, L., 167, 168  
 Bromwich, T. J. F. A., 47, 50, 192  
 Bronfenbrenner, J., 55  
 Bronson, H. L., 113  
 Bronson, W. C., 275  
 Brook, G. B., 294  
 Brook, R., 257  
 Brook, R. W., 322  
 Brooke, A. E., 47  
 Brooke, A. M., 30  
 Brooke, C. F. T., 228  
 Brooke, G. C., 188  
 Brooke, Z. N., 49  
 Brooke-Smith, Commr. L. A., 180  
 Brookings, R. S., 287  
 Brooks, A., 275  
 Brooks, A. E. G., 209  
 Brooks, A. H., 329  
 Brooks, C., 76  
 Brooks, F., 38  
 Brooks, F. T., 49  
 Brooks, G. C., 178  
 Brooks, H., 237  
 Brooks, Miss L. M., 174  
 Brooks, M., 318  
 Brooks, N. C., 318, 320  
 Brooks, S. C., 41  
 Brooks, S. D., 245  
 Brooks, W. T., 256  
 Brosnan, A. P., 324  
 Brough, R., 104  
 Broughton, L. N., 123  
 Brown, A., 58  
 Brown, A. C., 190  
 Brown, A. E., 20  
 Brown, Mrs. A. E., 20  
 Brown, A. J., 251  
 Brown, B., 240, 325  
 Brown, C., 225  
 Brown, C. E., 141, 266  
 Brown, C. H., 107  
 Brown, Miss C. M., 198  
 Brown, C. R., 227  
 Brown, C. W., 275  
 Brown, D. J., 143  
 Brown, D. J. A., 59  
 Brown, E., 219  
 Brown, E. B., 213  
 Brown, E. E., 236  
 Brown, E. V. L., 319  
 Brown, E. W., 228  
 Brown, F. L., 138  
 Brown, G. B., 91  
 Brown, G. D., 238  
 Brown, H., 179  
 Brown, H. C., 300  
 Brown, H. S., 71  
 Brown, Miss H. R., 201  
 Brown, J., 312  
 Brown, J. C., 45, 231  
 Brown, J. E., 76  
 Brown, J. G., 300, 313  
 Brown, J. H., 287  
 Brown, J. J. G., 93  
 Brown, J. M., 340  
 Brown, J. McK., 198  
 Brown, J. R., 282, 340  
 Brown, K. J., 61  
 Brown, Miss M. E., 142  
 Brown, Miss M. L., 336  
 Brown, M. S., 236  
 Brown, O. E., 225  
 Brown, O. W., 30  
 Brown, P. M., 272  
 Brown, R. C., 286  
 Brown, R. C. E., 236  
 Brown, R. E., 237  
 Brown, R. K., 168  
 Brown, R. M., 105  
 Brown, R. N. R., 293  
 Brown, Miss R. W., 196  
 Brown, S. A., 237  
 Brown, S. C., 332  
 Brown, S. W., 77  
 Brown, T., 107  
 Brown, T. B., 325  
 Brown, T. G., 207  
 Brown, T. H., 275  
 Brown, T. J., 4  
 Brown, T. R., 15  
 Brown, W., 2, 24, 86, 152, 157  
 Brown, W. A., 227, 239  
 Brown, W. L., 166  
 Brown, W. T., 311  
 Browne, A. W., 122, 124  
 Browne, E. G., 48  
 Browne, H., 85  
 Browne, P. G., 34  
 Brownell, H., 143  
 Browning, A., 105  
 Browning, C. C., 197  
 Browning, C. H., 172, 173  
 Browning, P. E., 228  
 Browne, J. S., 242  
 Browns, H. T., 184  
 Bruce, A. N., 92  
 Bruce, H., 10  
 Bruce, H. A., 310  
 Bruce, H. L., 23  
 Bruce, R. E., 33, 34, 35  
 Bruce, W., 314  
 Bruce, Major-General Sir D., 175  
 Bruce, W. I., 170, 174  
 Bruchési, His Grace Mgr. P., 220  
 Bruchési, P. L. N., 277  
 Bruening, E. H., 250  
 Brues, C. T., 54  
 Bruhl, P., 43  
 Bruckmiller, F. W., 137  
 Brumley, O. V., 77  
 Brummer, N. J., 304  
 Brunel, R. F., 40  
 Bruner, L., 142  
 Bruner, W. E., 68  
 Bruns, F., 201  
 Brunt, Capt. D., 180  
 Brush, E. N., 16  
 Brush, H. R., 110  
 Bryan, A. W., 121  
 Bryan, E. B., 114  
 Bryan, G. H., 19  
 Bryan, J. W., 17  
 Bryan, O. N., 225  
 Bryan, W. A., 225  
 Bryan, W. B., 339  
 Bryan, W. L., 30  
 Bryans, W. R., 236  
 Bryant, H., 17  
 Bryant, H. S., 332  
 Bryant, R., 163  
 Bryant, R. C., 229  
 Bryant, V. C., 25  
 Bryant, W. W., 180  
 Bryce, T. H., 105  
 Bryden, Miss C. T., 277  
 Byrne, W. A., 103  
 Bryson, C. W., 196, 197  
 Bryson, F. R., 131, 225  
 Bryson-Delavan, D., 242  
 Bubb, F. W., 288  
 Buesta, E., 24  
 Buchanan, H. R., 106  
 Buchanan, Miss G. V., 214, 215  
 Buchanan, J. G., 270  
 Buchanan, J. H., 185  
 Buchanan, J. J., 269  
 Buchanan, Miss M., 175  
 Buchanan, M. A., 309  
 Buchanan, R. J. McL., 145  
 Buchheim, Miss E. S., 157  
 Buchner, E. F., 14  
 Buck, C. D., 63  
 Buck, E. C., 76  
 Buck, Sir E. H., 161  
 Buck, G., 271  
 Buck, O. M., 80  
 Buck, P. C., 83  
 Buck, P. M., 142, 143  
 Buck, T., 24  
 Buckenridge, J. M., 224  
 Buckingham, B. R., 318  
 Buckingham, D. E., 325  
 Buckingham, F., 207  
 Buckingham, Harriet D., 56  
 Buckland, W. W., 46, 47  
 Buckley, A. F., 113  
 Buckley, Miss J., 66  
 Buckley, J. P., 207  
 Bucklin, H. S., 275  
 Buckman, H. O., 124  
 Buckmaster, G. A., 39, 158  
 Bucknall, C., 38  
 Budd, J. W., 148  
 Budden, L. B., 144  
 Budge, E. A. W., 178  
 Budge, Miss J. M., 111  
 Budington, R. A., 249  
 Buehr, K. A., 66  
 Buell, C. K., 42  
 Buell, M. D., 34, 35  
 Buffington, A. H., 341  
 Buffum, D. L., 272  
 Buist, R. C., 284  
 Bulkley, G. S., 303  
 Bull, C. G., 15  
 Bull, R. J., 213  
 Bullard, H. H., 15  
 Bullitt, J. B., 61  
 Bullock, C. J., 53  
 Bullock, D. S., 202  
 Bullock, F., 177  
 Bullock, T. T., 141  
 Bullock, W., 150, 169  
 Bunch, Miss M., 319  
 Bunker, S. W., 128  
 Bunting, A. E., 141  
 Bunting, C. H., 203  
 Bunting, T. G., 220  
 Bunts, F. E., 68  
 Burch, L. H., 225  
 Burchard, E. F., 329  
 Burekhalter, T. W., 268  
 Burnhall, J. L., 89  
 Burd, J. S., 24  
 Burden, H. P., 211  
 Burdick, W. L., 136  
 Burdon, E. J., 169  
 Burfield, S. T., 145  
 Burford, C. E., 286  
 Burge, W. E., 317  
 Burgess, A. H., 207, 344  
 Burgess, C. S., 97  
 Burgess, E. W., 64  
 Burgess, Miss J., 99  
 Burgess, W. L., 284  
 Burgess, W. T., 126  
 Burget, G. E., 99  
 Burgh, W. G. D., 280  
 Burghard, F. F., 172  
 Burgis, E. C., 207  
 Burke, D. J., 250  
 Burke, F. S., 100  
 Burke, R. E., 31  
 Burkitt, F. C., 47  
 Burleigh, Rt. Hon. Lord Balfour of, 284



# INDEX TO NAMES

- Burleigh, N. G., 115  
 Burley, G. W., 293  
 Burlingame, L. L., 300  
 Burlison, W. L., 319  
 Burls, F. B., 180  
 Burne, R. H., 167  
 Burnet, J., 284  
 Burnett, C. F., 237  
 Burnett-Hurst, A. R., 32  
 Burney, C. F., 255, 257, 260  
 Burnford, J. M., 172  
 Burnham, G. H., 309  
 Burnham, Miss J. M., 136  
 Burnham, L. P., 125  
 Burnham, W. H., 343  
 Burns, C. E., 251  
 Burns, D., 105, 107  
 Burns, Miss M., 92  
 Burns, T. C., 246  
 Burnside, C. H., 235  
 Burnstead, H. A., 228  
 Burpee, L. J., 254  
 Burr, E. G., 219  
 Burr, G. L., 122  
 Burr, H. S., 229  
 Burr, W. W., 142  
 Burrage, F. S., 134  
 Burrage, L. M., 302  
 Burrell, D. G., 107  
 Burrett, F. A., 76  
 Burritt, M. C., 124  
 Burroughs, B., 241  
 Burrows, E. N., 125  
 Burrows, M. T., 288  
 Burrows, R. M., 148, 156  
 Burstall, F. W., 28  
 Burstall, Miss S. A., 208  
 Burt, A. L., 97  
 Burt, E. A., 288, 289  
 Burt, F. P., 206  
 Burt, J. C., 269  
 Burt, P., 216  
 Burton, E. D., 62, 64, 65  
 Burton, E. F., 309, 312  
 Burton, H. E., 115  
 Burton, Marion L., 216  
 Burton, W. A., 138  
 Burton-Opitz, R., 234  
 Burwell, Cora G., 262  
 Bury, J. B., 48  
 Bush, A. D., 110  
 Bush, J. P., 39  
 Bush, S. H., 120  
 Bush, W. T., 234  
 Bushman, L. B., 251  
 Bushnell, D. I. jr., 332  
 Busk, Sir E. H., 147, 149  
 Bussey, Gertrude C., 18  
 Butin, R., 323  
 Butkiewicz, J. K., 326  
 Butler, A. J., 259  
 Butler, A. S., 284  
 Butler, C. P., 51  
 Butler, Sir G. G. G., 49  
 Butler, H. C., 272  
 Butler, H. E., 151, 155  
 Butler, H. L., 136, 138  
 Butler, J. B., 85  
 Butler, J. R. M., 50  
 Butler, N., 65  
 Butler, N. M., 232  
 Butler, Hon. Sir S. H., 7  
 Butler, T., 305  
 Butterfield, F. C., 277  
 Butterfield, T. E., 27  
 Butterfield, W. J. A., 193  
 Butterworth, J. E., 143  
 Butterworth, J. J., 207  
 Buwalda, J. P., 228  
 Buxton, L. H., 245  
 Byers, Sir J., 22  
 Byfield, A. H., 121  
 Byles, J. E., 180  
 Byrne, E. H., 201  
 Byrne, J., 6  
 Byrnes, C. M., 15  
 Cable, J. R., 245  
 Cabot, R. C., 54  
 Cadman, Sir J., 28  
 Cadwalder, W. B., 266  
 Cady, Miss H. M., 297  
 Cady, H. P., 137  
 Cady, W. G., 216  
 Caesar, L., 111  
 Cahen, E., 166  
 Cahill, W. V., 138  
 Cain, W., 61  
 Cairns, W. B., 201  
 Cairns, W. D., 249  
 Cairns, W. H., 107  
 Cajigas, T., 326  
 Cajori, F., 23  
 Calan, J. P., 88  
 Calder, C. C., 295  
 Calder, G., 105  
 Calder, W., 213  
 Calder, W. M., 206, 207  
 Calderwood, E. S., 34  
 Caldwell, F. C., 77  
 Caldwell, H. W., 142  
 Caldwell, O. W., 232  
 Caldwell, R., 225  
 Caldwell, W., 218  
 Caldwell, W. E., 235, 237  
 Caleb, C. C., 131  
 Cale-Matthews, G. F., 29  
 Caley, D. R., 312  
 Calhoun, G. M., 23  
 Calhoun, Miss H. A., 121  
 Calkins, G. N., 234  
 Callan, J. G., 202  
 Callaway, A. E., 213  
 Callendar, H. L., 165  
 Calman, W. T., 178, 192  
 Calvert, J., 166  
 Calvin, J. W., 143  
 Camboge, R. H., 306  
 Cambridge, the Marquis, 189  
 Camae, C. N. B., 235  
 Cameron, A., 102  
 Cameron, D., 33  
 Cameron, E. H., 228, 318  
 Cameron, G. S., 219  
 Cameron, H. C., 167, 168  
 Cameron, I. H., 310  
 Cameron, J., 113  
 Cameron, J. F., 49  
 Cameron, J. G., 107  
 Cameron, J. H., 309  
 Cameron, J. K., 95  
 Cameron, M., 105  
 Cameron, S. S., 213  
 Cammack, A., 276  
 Camoens, G. J., 156  
 Camp, B. H., 216  
 Campagna, E. T., 144  
 Campbell, A., 279, 290, 291  
 Campbell, A. J., 50  
 Campbell, C., 92, 207  
 Campbell, C. D., 30  
 Campbell, C. M., 15  
 Campbell, D. H., 300  
 Campbell, F. E. A., 2  
 Campbell, F. H., 214, 215  
 Campbell, G. H., 313  
 Campbell, G. M., 113  
 Campbell, J. A., 102, 312  
 Campbell, J. B., 195  
 Campbell, J. E., 192, 257, 260  
 Campbell, J. McL., 260  
 Campbell, J. N., 102  
 Campbell, J. R., 285  
 Campbell, K. B., 197  
 Campbell, Mrs. K. W., 156  
 Campbell, M. C., 31  
 Campbell, M. R., 329  
 Campbell, O. H., 288  
 Campbell, O. J., 201  
 Campbell, P. L., 98  
 Campbell, P. S., 313  
 Campbell, R., 92  
 Campbell, S. G., 43, 50  
 Campbell, T., 3  
 Campbell, W., 235  
 Campbell, W. W., 26, 223  
 Campion, G. G., 207  
 Canby, H. S., 228  
 Candy, A. L., 143  
 Candy, H., 169  
 Canfield, G. F., 235  
 Cann, Miss J. Y., 247  
 Cannan, E., 151, 162  
 Canney, M. A., 207  
 Cannilleri, F., 321  
 Canning, H., 83  
 Cannon, C. C., 336  
 Cannon, W. B., 54  
 Cannon, W. D., 336  
 Cano, B. S., 92  
 Canon, Miss H., 125  
 Canter, H. V., 317  
 Canterbury, Archbishop of, 342  
 Cantl, R. G., 166  
 Cantlie, Sir J., 170, 176  
 Cantrill, T. C., 182  
 Capen, E. W., 117  
 Caperton, H. A., 66  
 Capper, D. S., 150, 157  
 Capps, E., 272  
 Cardwell, H., 207  
 Carey, E., 143  
 Carey, E. F. A., 217  
 Carey, F. S., 144  
 Carey, L. R., 274  
 Cargill, L. V., 172  
 Carlier, F. W. W., 29  
 Carllill, H., 172  
 Carling, R., 172  
 Carlisle, R. J., 237  
 Carlson, A. J., 64  
 Carlyle, A. J., 255, 257  
 Carlyle, E. I., 258  
 Carlyle, E. J., 98  
 Carmalt, Mrs. A. M., 268  
 Carman, A. P., 318  
 Carman, J. E., 75, 77  
 Carment, D., 306  
 Carmichael, J., 180  
 Carmichael, R. B., 326  
 Carmichael, R. D., 318  
 Carnahan, D. H., 317  
 Carney, Miss M., 233  
 Carnoy, A. J., 23  
 Carpenter, C. D., 234  
 Carpenter, C. M., 124  
 Carpenter, F. R., 242  
 Carpenter, F. W., 116  
 Carpenter, G. H., 86  
 Carpenter, H. C. H., 152, 165  
 Carpenter, H. V., 276  
 Carpenter, P. S., 246  
 Carpenter, R., 40, 141  
 Carpenter, R. W., 142  
 Carpenter, S. C., 51  
 Carpenter, W. H., 232  
 Carr, A. W., 156  
 Carr, Miss E. P., 298  
 Carr, E. T. S., 50  
 Carr, H., 309, 312  
 Carr, H. A., 63  
 Can, H. W., 151  
 Carr, J. W., 175, 248  
 Carr, S. E., 190  
 Carre, H. B., 225  
 Carrigan, T. C., 328  
 Carrington, H. De W., 247  
 Carritt, E. F., 257  
 Carroll, D. D., 61  
 Carroll, H. H., 211  
 Carroll, M., 325, 337  
 Carroll, W., 208  
 Carruth, W. H., 299  
 Carruth, M. W., 71  
 Carruthers, A., 309  
 Carruthers, C., 97  
 Carruthers, D., 187  
 Carruthers, R. G., 182  
 Carse, G. A., 92  
 Carslaw, H. S., 305  
 Carson, H. H., 252  
 Carson, H. L., 266  
 Carter, —, 272  
 Carter, A. T., 269  
 Carter, C. R., 258  
 Carter, E. P., 68  
 Carter, H. F., 147  
 Carter, H. G., 295  
 Carter, H. H., 249  
 Carter, H. S., 235  
 Carter, J., 253  
 Carter, R. E., 138  
 Carter, S. R., 28  
 Carter, T. A., 66  
 Carter, W. S., 101  
 Cartmell, B. E., 80  
 Cartwright, C. L., 204  
 Cartwright, M. A., 22  
 Caruana, G., 321  
 Carver, G. W., 316  
 Carver, T. N., 53  
 Carver, W. B., 123  
 Carver, W. O., 199  
 Cary, E. R., 315  
 Cary, P., 323  
 Cary, M., 151, 155, 160  
 Casamagor, J., 234  
 Casartelli, L. C., 206  
 Casanowicz, I. M., 331  
 Case, C. M., 120  
 Case, E., 70  
 Case, G. W., 268  
 Case, H. C., 6  
 Case, R. H., 144  
 Case, S. J., 64  
 Case, T., 259  
 Casey, R. D., 218  
 Cassar, S., 321  
 Casselman, E. J., 336  
 Cassilly, F. B., 250  
 Casteel, F. A., 323  
 Castellani, A., 176

- Castle, C. F., 63  
 Castro, Miss M., 40  
 Castle, D. E., 36  
 Castle, W. E., 53  
 Castlehow, S., 37  
 Castleman, F. R., 77  
 Casto, F. M., 68  
 Caswell, W. C. B., 311  
 Cathcart, A. M., 301  
 Cathcart, E. P., 169  
 Cathcart, G. L., 82  
 Cato, F. J., 215  
 Caton, R., 146  
 Caudell, A. N., 331  
 Caudell, R. A., 303  
 Caunt, G. W., 89  
 Causey, J. G., 324  
 Cavanagh—Mainwaring,  
 W. R., 4  
 Cavanaugh, G. W., 122,  
 124  
 Cavanaugh, J. A., 320  
 Cave, G. H., 295  
 Cave, T. W., 344  
 Caverno, Miss J. H.,  
 247  
 Cayley, J., 90  
 Caywood, T. G., 121  
 Cayzer, A., 264  
 Cecil, Rt. Hon. Lord  
 H. R. H., 260  
 Cecil, Rt. Hon. Lord  
 R., 28  
 Cell, G. C., 34, 35  
 Cellier, J. S., 126  
 Center, H. B., 34, 35  
 Cerf, B., 201  
 Chace, A. B., 275  
 Chace, Miss E. P., 303  
 Chacko, P. C., 205  
 Chadbourne, Ava, 253  
 Chaddock, C. G., 236  
 Chaddock, R. E., 233  
 Chadsey, C. E., 317  
 Chadwick, H. C., 145  
 Chadwick, H. M., 48  
 Chafee, C., 55  
 Chaffee, E. L., 54, 55  
 Chagnon, P., 222  
 Chakmakjian, H. H.,  
 211  
 Chakravarty, B. K., 44  
 Chaldecott, J. H., 174  
 Chalfont, F. C., 276  
 Challenger, F., 28  
 Chalmers, A. J., 127  
 Chalmers, G., 160  
 Chalmers, S. D., 164  
 Chaloupka, E., 251  
 Chambers, C. D., 29  
 Chambers, G., 310  
 Chambers, J., 173  
 Chambers, P. F., 234  
 Chambers, R. F., 275  
 Chambers, R. W., 152,  
 154, 155, 156  
 Chambers, T. R., 17  
 Chambers, W. G., 268,  
 269  
 Chamberlain, G. R., 125  
 Chamberlain, R. T., 63  
 Chamberlain, T. C., 63  
 Chamberlin, D. S., 27  
 Chamberlin, E. M., 34,  
 35  
 Chambliss, C. E., 337  
 Chamot, E. M., 122  
 Champernowne, F. G.,  
 260  
 Champion, C. G., 188  
 Champaloup, S. T., 87  
 Chand, H., 10  
 Chand, L. H., 132  
 Chand, L. M., 132  
 Chandavarkar, Sir N.  
 G., 31  
 Chandee, G. C., 302  
 Chandler, A. R., 76  
 Chandler, B. A., 125  
 Chandler, E. F., 110  
 Chandler, H. A. E., 233  
 Chandler, S. E., 179  
 Chandler, W. H., 124  
 Channing, E., 53, 336  
 Chant, C. A., 309, 314  
 Chapais, Hon. T., 278  
 Chapelow, H. C., 344  
 Chapin, C. W., 336  
 Chapin, F. S., 247  
 Chapin, G. S., 76  
 Chapin, H. C., 90  
 Chapin, W. H., 249  
 Chapman, Miss, 304  
 Chapman, C. E., 23  
 Chapman, D. L., 260  
 Chapman, F., 215  
 Chapman, F. M., 240  
 Chapman, H., 169  
 Chapman, H. G., 306  
 Chapman, H. H., 229  
 Chapman, J. B., 183  
 Chapman, J. C., 69  
 Chapman, L. B., 27  
 Chapman, O. C., 183  
 Chapman, P. A., 273  
 Chapman, Miss P. M.,  
 100  
 Chapman, R. W., 4, 5  
 Chapman, S., 50, 206  
 Chappell, Miss B., 135  
 Chapple, C. R., 3  
 Chapple, H., 168  
 Charbonneau, N., 220  
 Charles, Miss G. M., 137  
 Charles, R., 157  
 Charles, R. F., 160  
 Charles, Sir R. H., 176  
 Charles, R. L., 27  
 Charlesworth, F. K., 207  
 Charlton, H. B., 206  
 Charrington, J., 51  
 Charteris, F. J., 284  
 Charters, R. H., 126  
 Charter, E., 220, 222,  
 278  
 Charton, P., 221  
 Chase, C. H., 210  
 Chase, C. K., 71  
 Chase, C. S., 121  
 Chase, G. A., 49  
 Chase, G. D., 253  
 Chase, G. H., 53  
 Chase, H. W., 60  
 Chase, Miss M. A., 298  
 Chase, O. J., jr., 235  
 Chase, W., 141  
 Chase, W. J., 201  
 Chatburn, G. R., 141  
 Chattaway, F. D., 258,  
 261  
 Chatterjee, J., 263  
 Chatterji, B. R., 10  
 Chatterji, P., 45  
 Chatterji, S. C., 60  
 Chaudhary, B. K., 263  
 Chaudhary, H. C. R.,  
 263  
 Chaundy, T. W., 169  
 Chauvet, F., 320  
 Chauvire, R., 85  
 Cheadle, J. B., 246  
 Cheater, T. J., 180  
 Cheatle, A. H., 172  
 Cheatle, Sir G. L., 172  
 Chedsey, W. R., 303  
 Cheever, D., 54  
 Cheever, Miss L. S., 247  
 Chelladurai, S., 205  
 Chend, A., 280  
 Chenery, W. E., 211  
 Chenery, W. H., 287  
 Cheney, C. O., 243  
 Cheney, W. F., 300  
 Cheny, F. H., 25  
 Cherry, W. C., 225  
 Cheshire, F. J., 164, 165,  
 190  
 Cheshire G. C., 257,  
 261  
 Chesnut, W. C., 17  
 Chester, W. M., 114  
 Chew, S. C., 41  
 Cheydlear, F. G., 201  
 Chiene, G. L., 93  
 Child, A. T., 308  
 Child, C. D., 114, 123  
 Child, C. M., 63  
 Childs, F. L., 115  
 Childs, H. G., 31  
 Childs, W. M., 280  
 Chillman, E. F., 315  
 Chilton, C., 67  
 Chilton, C. A., 38  
 Chinmayanandam, T.  
 K., 43, 296  
 Chipman, W. W., 219  
 Chisolm, G. G., 92  
 Chisholm, M., 113  
 Chisholm, W. R., 107  
 Chittenden, 272  
 Chittenden, E. W., 120  
 Chittenden, R. H., 227,  
 229  
 Chivers, A. H., 115  
 Choate, Miss H. A., 247  
 Cholmondeley, F. G.,  
 258  
 Cholmeley, R. J., 37  
 Choquette, P., 278  
 Chowdhury, R. N., 8  
 Chowins, C. E., 141  
 Chowla, G. S., 131  
 Choyce, C. C., 171  
 Chree, C., 180, 181  
 Chrisman, O., 12  
 Christensen, O. E., 110  
 Christenson, W. E., 217  
 Christian, H. A., 54  
 Christie, A. G., 15  
 Christie, B. W., 142,  
 251  
 Christie, C. V., 219  
 Christie, R., 270  
 Christie, W. A. K., 45  
 Christy, J. S., 270  
 Chrysler, M. A., 253  
 Chubb, C. St. J., jr., 75  
 Chubb, E. W., 11, 12  
 Chubb, H. B., 137  
 Chuckerburty, J. N.,  
 292  
 Church, A. H., 257  
 Church, J. E., 281  
 Churchill, A. V., 247  
 Churchill, E. F., 156  
 Churchill, G., 9  
 Churchill, G. M., 325  
 Churchill, G. W., 104  
 Churchill, Marion, 74  
 Churchman, J. W., 229  
 Churchman, P. H., 343  
 Chute, A. L., 211  
 Chute, Miss H. H., 198  
 Cillie, G. G., 304  
 Cimino-King, Mrs. M.,  
 157  
 Cippico, A., 151, 155  
 Clack, B. W., 159  
 Clapham, E. W., 169  
 Clapham, J. H., 49  
 Clapp, Mrs. A., 143  
 Clapp, E. J., 237  
 Clapp, F. L., 201  
 Clapp, G. H., 268  
 Clapp, P. G., 120  
 Clapp, R. G., 143  
 Clapperton, A. F., 104  
 Claran, Pt. R., 13  
 Clark, A. B., 299  
 Clark, A. C., 256, 259  
 339  
 Clark, A. F. B., 322  
 Clark, A. H., 320, 331  
 Clark, A. J., 151, 155,  
 168  
 Clark, A. W., 104  
 Clark, B. L., 24  
 Clark, C. E., 229  
 Clark, D., 107  
 Clark, D. T., 341  
 Clark, E., 64  
 Clark, E. F., 115  
 Clark, E. M., 319  
 Clark, E. S., 216  
 Clark, E. V., 4  
 Clark, F., 58  
 Clark, G., 136  
 Clark, G. F., 315, 326  
 Clark, G. L., 196  
 Clark, G. N., 258  
 Clark, G. T., 299, 301  
 Clark, H., 249  
 Clark, H. A., 99  
 Clark, J., 58  
 Clark, J. B., 234, 235  
 Clark, J. C., 198, 300  
 Clark, J. M., 63  
 Clark, J. T., 23  
 Clark, Miss L. S., 247  
 Clark, L. T., 197  
 Clark, L. W., 316  
 Clark, P. F., 203  
 Clark, R. C., 99  
 Clark, R. H., 322  
 Clark, S. H., 63  
 Clark, T. A., 317  
 Clark, R. S., 271  
 Clark, W., 266, 340  
 Clark, W. E., 63, 192,  
 280  
 Clark, B. R. P., 301  
 Clarke, A. C., 264  
 Clarke, B., 21  
 Clarke, C. C., 227  
 Clarke, C. K., 310  
 Clarke, C. S., 179  
 Clarke, Miss E., 217  
 Clarke, F., 163  
 Clarke, F. W., 325, 331  
 Clarke, Miss H. M., 137  
 Clarke, J., 2  
 Clarke, J. M., 6, 315  
 Clarke, W. C., 235  
 Clarke, W. T., 24  
 Clarkson, R., 66  
 Clausen, R. E., 25  
 Clawson, B. J., 110  
 Clawson, W. H., 309  
 Claxton, T. F., 119  
 Clay, A. T., 227, 241  
 Clay, J., 89  
 Clayden, A. W., 100  
 Clayter, F. C., 268  
 Clayton, A. E., 209



# INDEX TO NAMES

- Clayton, F. H. A., 89  
 Clayton, W. F., 11  
 Clayton-Greene, W. H., 173, 174  
 Claytor, T. A., 326  
 Cleary, Lt.-Col., A. W., 276  
 Clegg, J. G., 207  
 Cleland, H. F., 341  
 Cleland, J. B., 306  
 Clemens, C. E., 69  
 Clement, F. M., 322  
 Clephane, W. C., 326  
 Clery, A. E., 85  
 Cleveland, A. A., 276  
 Cleveland, F. A., 33  
 Clibbens, D. H., 157  
 Clifford, F. W., 190  
 Clifford, H. E., 55  
 Cliford, W., 240  
 Clifton, J. L., 77  
 Clinch, G., 184  
 Clinton, M., 42  
 Clinton, W. C., 155  
 Clogg, H. S., 170  
 Cloran, T., 99  
 Close, R. W., 57  
 Cloud, C. H., 287  
 Cloudman, H. C., 329  
 Clough, P. W., 15  
 Clough, Miss B. A., 52  
 Clover, M., 52  
 Clucas, R. J. M., 3, 4  
 Cluver, E. H., 126  
 Clymer, C. E., 246  
 Clyne, S. T. S., 215  
 Coakley, C. G., 234  
 Coar, J. F., 97  
 Coates, C. V., 159  
 Coates, J. E., 28  
 Cobb, C., 61  
 Cobb, C. W., 10  
 Cobb, F. MacM., 68  
 Cobb, Miss H. R., 247  
 Cobb, J. W., 140  
 Cobb, P. S., 27  
 Coble, A. B., 317  
 Coehran, 272  
 Coehran, G. I., 196  
 Coehran, Miss H. F., 249  
 Coehran, R. E., 143  
 Cockayne, E. A., 173  
 Cockburn, Hon. Sir J., 162  
 Cockburn, J., 83  
 Cockburn, J. R., 310  
 Cockerell, S. C., 51  
 Coddington, E. F., 77  
 Codrington, O., 188  
 Coe, G. A., 239  
 Coe, W. B., 17  
 Coe, W. R., 228, 230  
 Coelho, M. N., 210  
 Coffen, T. H., 99  
 Coffey, D. G., 84  
 Coffey, D. J., 84  
 Coffey, J. S., 76  
 Coffey, R. C., 99  
 Coffey, W. C., 319  
 Coffin, H. S., 239  
 Coffin, H. W., 99  
 Coghill, G. E., 137  
 Cogshall, W. A., 30  
 Cogswell, A. W., 113  
 Cogswell, H., 198  
 Cohen, A., 14  
 Cohoe, B. A., 269  
 Cohen, J. B., 140  
 Cohen, L., 325  
 Coit, J. B., 33, 35  
 Coit, J. E., 24  
 Coker, E. G., 150, 155  
 Coker, F. W., 75  
 Coker, W. C., 61  
 Colahan, N. W., 103  
 Colburn, Miss C. C., 65  
 Colburn, F. W., 34  
 Colby, C. C., 64  
 Colby, C. W., 218  
 Cole, A. C., 318  
 Cole, A. D., 75  
 Cole, C. N., 248, 249  
 Cole, D. F., 141  
 Cole, Fay C., 66  
 Cole, F. J., 280  
 Cole, F. N., 233, 243  
 Cole, G. A. J., 86  
 Cole, G. D. H., 258  
 Cole, H. N., 68  
 Cole, L. G., 123  
 Cole, L. J., 200  
 Cole, M. G. V., 7  
 Cole, R. H., 174  
 Cole, S. W., 47  
 Cole, W. M., 55  
 Cole, W. R., 224  
 Coleman, A. P., 254  
 Coleman, A. P., 309  
 Coleman, F., 175  
 Coleman, R. C., 121  
 Coleman, W., 237  
 Coley, W. B., 123  
 Colle, Miss F. A., 144  
 Collic, J. N., 150, 155  
 Collier, Miss A. B., 52  
 Collier, C. S., 326  
 Collier, J. S., 168  
 Collier, T. F., 275  
 Collier, Hon. W. M., 324  
 Collinge, W. E., 284  
 Collings, H. T., 301  
 Collings, M. P., 171  
 Collingwood, B. J., 85  
 Collingwood, G. H., 125  
 Collingwood, R. G., 260  
 Collins, A. J., 177  
 Collins, C. W. Jr., 334  
 Collins, E. T., 170  
 Collins, H. O., 121, 193  
 Collins, J. R., 314  
 Collins, V. L., 272  
 Collins, Sir W. J., 148  
 Collision, R. C., 104  
 Collinson, W. E., 144  
 Collip, J. B., 97  
 Collitz, H., 14  
 Colman, W. G., 174  
 Coln, F., 327  
 Colomb, Miss R., 28  
 Colon, E. D., 232  
 Colpitts, E. C., 276  
 Colvin, Caroline, 253  
 Colvin, S. S., 275  
 Colwell, H. S., 229  
 Colyer, J. F., 170  
 Comber, H. C., 49  
 Commons, J. R., 200  
 Compton, K. T., 274  
 Comrie, J. D., 93  
 Comstock, Mrs. A. B., 124  
 Comstock, A. P., 297  
 Comstock, F. M., 70  
 Comstock, Miss G., 197  
 Comstock, G. C., 200  
 Comstock, J. H., 124  
 Compton, Miss N. J., 143  
 Conant, E. B., 288  
 Conant, J. B., 54  
 Condon, J., 86  
 Cone, S. M., 16  
 Congdon, E. D., 300  
 Conger, J. L., 102  
 Conklin, Miss C., 143  
 Conklin, C. B., 326  
 Conklin, E. G., 274  
 Conklin, E. S., 99  
 Conklin, Miss J., 31  
 Conlan, P. T., 251  
 Conley, C. H., 216  
 Conley, Miss E., 201  
 Conn, H. J., 104  
 Connah, J., 180  
 Connal, B. M., 140  
 Connaught, H. R. H. the Duke of, 185, 187  
 Connell, A., 293  
 Connell, J., 105  
 Connell Miss M. A., 336  
 Conner, C. M., 25  
 Conner, L. A., 123  
 Conner, S. L., 211  
 Connolly, J. P., 279  
 Conran, M. J., 78  
 Conrow, 272  
 Cons, L., 273  
 Conser, C. C., 16  
 Constant, F. H., 274  
 Constant, J., 222  
 Constantini, C. L., 326  
 Converse, Maj. G. L., 75  
 Conway, A. W., 84, 85  
 Conway, Miss G., 208  
 Conway, R. S., 206  
 Conway, Sir W. M., 187  
 Conwell, W. L., 125  
 Cook, A. B., 48, 50, 52  
 Cook, A. S., 227  
 Cook, C. W., 197  
 Cook, Miss E. C., 233  
 Cook, E. F., 265  
 Cook, Miss E. P., 247  
 Cook, E. R., 184  
 Cook, J., 29  
 Cook, J. E., 288  
 Cook, Miss M. M., 247  
 Cook, O. F., 331  
 Cook, R. J., 229  
 Cook, S. A., 49  
 Cook, S. J., 217  
 Cook, S. R., 259  
 Cook, T., 207  
 Cook, W. G. H., 149  
 Cook, W. W., 235  
 Cooke, C. M., 119  
 Cooke, C. P., 177  
 Cooke, G. A., 255, 256, 259  
 Cooke, J. D., 277  
 Cooke, L. H., 165, 274  
 Cooke, L. H., 165  
 Cooke, W. C., 78  
 Cooke, W. E., 306, 307  
 Cooke, W. P., 54  
 Cooke, J. F., 4  
 Cookson, C., 258  
 Cool, C. D., 201  
 Cooley, Miss A. M., 233  
 Cooley, R. W., 110  
 Coolidge, A., 54  
 Coolidge, A. C., 53, 56  
 Coolidge, E. D., 320  
 Coolidge, J. L., 53  
 Coolidge, W. A. B., 258  
 Coombs, F. E., 310  
 Coon, A. C., 217  
 Coons, J. J., 77  
 Coony, J. P., 286  
 Cooper, C. F., 49, 52  
 Cooper, C. M., 301  
 Cooper, C. P., 236  
 Cooper, G., 175  
 Cooper, H. B., 260  
 Cooper, H. E., 270  
 Cooper, J., 106  
 Cooper, J. E., 300  
 Cooper, J. M., 107  
 Cooper, L., 122  
 Cooper, L. A., 76  
 Cooper, The Hon. Sir P. A., 37  
 Cooper, T. P., 140  
 Cooper, W. A., 299  
 Cooper, W. H., 12  
 Cooper, W. L., 38  
 Cooper, Miss Z. M., 121  
 Coopland, G. W., 144, 145  
 Coote, P., 278  
 Cope, R. P., 277  
 Cope, V. Z., 173  
 Cope, W. H., 30  
 Copeland, C. M., 11  
 Copeland, C. T., 54  
 Copeland, E. P., 326  
 Copeland M. T., 55  
 Copeland, W. F., 12  
 Copeman, S. M., 172  
 Coppersmith, C. W., 70  
 Copping, E. J., 326  
 Corbett, 46  
 Corbett, L. S., 253  
 Corbey, W. J., 250  
 Corbin, A. L., 229  
 Corbin, Miss A. L., 136  
 Corbin, C. E., 289  
 Corbin, F., 217  
 Corbin, H. H., 4  
 Corbitt, H. B., 336  
 Corby, H., 78  
 Corcoran, T., 85  
 Cordell, H. W., 277  
 Cordley, A. B., 79  
 Core, D. E., 207  
 Corfield, Major C., 38  
 Corkins, Miss E. D., 75  
 Corless, R., 180  
 Corlett, W. T., 68  
 Corley, A. H., 228  
 Cormack, J. D., 105  
 Cornejo, S., 34, 35  
 Cornell, Miss G. A., 233  
 Cornelson, C. A., 276  
 Corner, G. W., 15  
 Cornford, F. M., 50  
 Cornish, G. A., 310  
 Cornwall, E. W., 212  
 Corp, C. I., 202  
 Cort, W. W., 15  
 Cortwright, R. O., 281  
 Corwin, B., 238  
 Corwin, E. S., 272  
 Corwin, R. N., 227  
 Cory, C. B., 67  
 Cory, C. E., 287  
 Cory, C. L., 25  
 Cory, G. E., 109  
 Cory, H. E., 23  
 Cosgrave, F. H., 309  
 Coss, J. J., 254  
 Cossette, M. N., 135  
 Cossette, M. R., 135  
 Costain, J. H., 28  
 Cott, G. F., 42  
 Cotter, G. de P., 45  
 Cotter, J. R., 83  
 Cotton, A., 16  
 Cotton, C. A., 340  
 Cottrell, H. V., 76  
 Couch, Miss I. C., 297  
 Coughlin, W. T., 286  
 Coulson, J. C., 268  
 Coultas, H. W., 29

- Coulter, C. W., 69  
 Coulter, J. L., 223  
 Coulter, J. M., 63  
 Coultrap, F. S., 12  
 Councilman, W. T., 54  
 Coutrady, A. E., 165  
 Courtman, E. O., 165  
 Courtney, W. L., 258  
 Courville, H. L., 222  
 Cousins, J. A., 210  
 Cousineau, P., 278  
 Cousineau, P., 221  
 Cousins, C. E., 120  
 Coutinho, J. de S., 325  
 Covert, C. C., 329  
 Coville, F. V., 331  
 Covington, H. F., 272  
 Covington, Hon. J. H., 324  
 Cowan, H., 1, 2  
 Cowan, J. F., 300  
 Cowan, J. M., 106  
 Coward, H., 293  
 Cowden, C. N., 225  
 Cowdrey, K. L., 249  
 Cowdrey, The Rt. Hon. Viscount, 1  
 Cowell, A. W., 302  
 Cowell, P. H., 181  
 Cowen, T. P., 145  
 Cowie, R. H., 2  
 Cowin, R. B., 61  
 Cowell, S. F., 167  
 Cowles, H. C., 63  
 Cowles, W., 9  
 Cowley, 272  
 Cowley, A. E., 253  
 Cox, A., 188  
 Cox, A. H., 60  
 Cox, Miss C. M., 289  
 Cox, P., 102  
 Coxen, J. R., 135  
 Coy, G. J., 14  
 Coy, H., 101  
 Craig, C. F., 123  
 Craig, E. S., 255, 257  
 Craig, E. S., 259  
 Craig, G. W., 197  
 Craig, H., 120  
 Craig, J., 83, 85, 86  
 Craig, J. A., 22, 309  
 Craig, M., 168  
 Craig, W., 253  
 Craigie, W. A., 256, 257  
 Craigie, W. M., 287  
 Crail, W. G., 92  
 Cramp, W., 28  
 Cramp, W. C., 237  
 Crampton, H. E., 233, 240, 241  
 Crampton, J., 4  
 Crandall, C. S., 319  
 Crandall, Miss R. K., 40  
 Crane, A. B., 326  
 Crane, E. J., 242  
 Crane, J. A., 269  
 Crane, J. W., 195  
 Crane, Miss M. M., 336  
 Cranfield, H. T., 305  
 Cranny, Miss L., 251  
 Cranston, J. A., 107  
 Crapper, E. H., 293  
 Craster, H. H. E., 258  
 Crathorne, A. R., 318  
 Cravens, J. W., 30  
 Crawford, A. C., 300  
 Crawford, C., 136  
 Crawford, D. D., 145  
 Crawford, H. J., 149, 310  
 Crawford, J. R., 90, 228  
 Crawford, J. T., 310  
 Crawford, M., 196  
 Crawford, M. B., 216  
 Crawford, R. T., 23  
 Crawford, R., 172  
 Crawshaw, F. D., 200  
 Crawshaw, W. H., 114  
 Crawshaw, L. R., 271  
 Creed, J. M., 50  
 Creeden, J. B., 323  
 Creelman, G. C., 111  
 Creighton, J. E., 122  
 Crenshaw, J. L., 41  
 Cresson, W. P., 273  
 Crewe, the Marquess of, 292  
 Critchlow, F. L., 272  
 Crichton, E. C., 58  
 Crichton-Browne, Sir J., 185  
 Crick, P. C. T., 49  
 Crile, G. W., 68  
 Criley, C. H., 197  
 Crisfield, A., 334  
 Crittenden, E. C., 339  
 Crocheron, B. H., 24  
 Crockett, P. C., 99  
 Crocker, W., 63  
 Crockett, J., 106  
 Crockett, C. W., 315  
 Crockett, S. S., 225  
 Crockett, W. D., 302  
 Croft, E. O., 140  
 Croft, S. M., 334  
 Crofton, W. M., 85  
 Crofts, G. D., 42  
 Crofts, J. E. V., 38  
 Croissant, De W. C., 325  
 Crokett, E. A., 54  
 Croll, M. W., 273  
 Crommelin, A. C. D., 180, 186  
 Crompton, H., 151, 160  
 Cronin, M., 85  
 Cronshaw, B. G., 257  
 Cronshaw, H. B., 103  
 Crook, A. R., 298  
 Crook, C. V., 183  
 Crook, J., 9  
 Crook, T., 179  
 Crookes, Sir W., 190  
 Croom, Sir J. H., 92  
 Crosby, C. R., 124  
 Crosby, D. J., 124  
 Crosby, J. P., 34  
 Crosby, T., jr., 275  
 Crosby, W. H., 41  
 Cross, A. C., 134  
 Cross, C. N., 300  
 Cross, F. R., 39  
 Cross, G., 282  
 Cross, H., 275  
 Cross, I. B., 24  
 Cross, L. J., 124  
 Cross, T. P., 63  
 Cross, W. F., 166  
 Cross, W. L., 227  
 Crosse, C., 231  
 Crossley, A. W., 150, 157, 190  
 Crow, J. W., 111  
 Crow, J. W. S., 213  
 Crowden, C. H., 12  
 Crowe, S. J., 15  
 Crowell, Miss A. C., 275  
 Crowell, J. W., 283, 302  
 Crowfoot, J. W., 127  
 Crowley, C. F., 251  
 Crowley, J. F., 323  
 Crowther, E. M., 282  
 Crowther, F. K., 29  
 Crowther, K., 29  
 Crozier, W. J., 64, 320  
 Cru, J. N., 341  
 Cruess, W. V., 24  
 Cruickshank, A., 162, 165  
 Cruickshank, H., 89  
 Cruickshank, Brig.-Gen. E. A., 254  
 Cruickshanks, G. S., 107  
 Crumbine, S. J., 136, 137  
 Crummer, L., 142  
 Crummer, Le R., 251  
 Crump, C. C., 80  
 Crump, Miss L. M., 283  
 Crump, R. S., 163  
 Cruttwell, C. R. M. F., 258  
 Cruzen, E. E., 17  
 Crymble, P. T., 22  
 Cubberley, E. P., 299  
 Cudmore, A. M., 4  
 Cudmore, S. A., 309  
 Cuff, A., 293  
 Culbreth, D. M. R., 17  
 Cullen, C. E., 287  
 Cullen, The Hon. Sir D. P., 305  
 Cullen, R. T., 180  
 Cullen, T. S., 14  
 Culler, J. A., 78  
 Culley, D. E., 270  
 Cullis, C. E., 43  
 Cullis, G. G., 165  
 Cullis, Miss W., 175  
 Cullis, Miss W. C., 152  
 Culverwell, E. P., 82  
 Cumberbatch, E. P., 166  
 Cumbrae-Stewart, F. W. S., 37  
 Cumings, E. R., 30  
 Cummer, C. L., 68  
 Cumming, A. C., 92  
 Cumming, C. A., 120  
 Cummings, 272  
 Cummings, M. E., 25  
 Cummings, Miss M. L., 99  
 Cummins, H., 225  
 Cummins, H. A., 78  
 Cummins, Miss L. A., 198  
 Cummins, W. E. A., 78  
 Cundall, F., 128  
 Cunliffe, J. W., 235  
 Cunniff, J., 175  
 Cunningham, E., 50  
 Cunningham, H. E., 317  
 Cunningham, Miss H. E., 245  
 Cunningham, J. D., 62  
 Cunningham, J. T., 169  
 Cunningham, O. J., 137  
 Cunningham, Miss R. L., 24  
 Cunningham, R. S., 15  
 Cunningham, S. R., 246  
 Cunningham, W. J., 55  
 Cunningham, W. R., 183  
 Cunington, W. A., 166  
 Curl, C. M., 253  
 Curnock, W. E. M., 162  
 Curotte, A., 278  
 Curran, E. J., 137  
 Curran, Miss M. B., 193  
 Currelly, C. T., 309  
 Currie, General Sir A., 218  
 Currie, J., 96  
 Currier, C. H., 275  
 Curry, M. A., 113  
 Curry, P. A., 42  
 Curry, W. C., 225  
 Curtis, C. C., 234  
 Curtis, E., 83  
 Curtis, E. N., 18  
 Curtis, Miss F. R., 319  
 Curtis, G. M., 225  
 Curtis, H. D., 223  
 Curtis, M. M., 68  
 Curtis, N. C., 318  
 Curtis, O. F., 125  
 Curtis, R. E., 102  
 Curtis, R. W., 124  
 Curtis, W. A., 91  
 Curtis, W. E., 293, 294  
 Curtiss, C. F., 9  
 Curts, P. H., 216  
 Curzon, The Rt. Hon. Earl, 187  
 Cuschieri, A., 321  
 Cushing, D., 309, 312  
 Cushing, Miss E. P., 247  
 Cushing, H., 54  
 Cushing, H. P., 68  
 Cushing, Miss M. G., 297  
 Cushman, A. S., 325  
 Cushman, H. I., 210  
 Cushman, P. A., 303  
 Cushman, R. A., 338  
 Cushny, A. R., 92  
 Cutcher, J. B., 31  
 Cuthbert, J. R., 32  
 Cuthbertson, W., 108  
 Cutler, Miss A. A., 247  
 Cutler, D. W., 233  
 Cutler, G. H., 97  
 Cutler, J. E., 63  
 Cutter, I. S., 141, 251  
 Cutter, L. E., 300  
 Cutting, S. W., 63  
 Dabney, A. S., 225  
 Dadina, F. M., 126  
 Dadouisan, H. M., 116  
 da Fano, C., 157  
 Daggett, P. H., 61  
 Daggett, S., 24  
 Dagneau, C., 278  
 Dahl, G., 229  
 Dahlgren, B. E., 67  
 Dahlgren, U., 274  
 Dailey, G. F. N., 317  
 Dains, F. B., 137  
 Dakin, W. J., 264  
 Dalby, W. E., 148, 151  
 Dale, E. A., 309  
 Dale, E. E., 245  
 Dale, G. I., 287  
 Dale, H. C., 134  
 Dale, J. A., 218, 225  
 Dale, J. B., 156  
 Dale, J. D., 157  
 Dale, N. C., 71  
 Dales, J. S., 141  
 Daley, Miss C. M., 120  
 Dall, W. H., 119, 331  
 Dallas, F., 322  
 Dalton, A. T., 30  
 Dalton, Sir C. N., 163  
 Dalton, J. P., 126  
 Dalton, N., 172  
 Dalton, O. M., 178  
 Dalvi, V. G., 32

# INDEX TO NAMES

- Daly, A. S., 169  
Daly, B. C., 134  
Daly, R. A., 53  
Damilano, B., 250  
Damon, L. T., 275  
Dana, C. L., 123  
Dana, E. S., 230  
D'Andrade, J. C. P., 32  
Dandy, W. E., 15  
Danforth, C. H., 288  
Danforth, R. H., 70  
Danforth, W. C., 320  
Daniel, J., 224  
Daniel, J. F., 23  
Daniel, P., 170  
Daniell, B. H., 183  
Daniels, Miss A., 120  
Daniels, A. H., 317  
Daniels, C. W., 168,  
169, 175, 176, 206  
Daniels, G. W., 208  
Danielson, C. S., 232  
Danley, B. C., 142  
Dann, H. E., 122  
Dann, W. F., 143  
Danschakoff, Miss V.,  
235  
Danson, F. C., 146  
Darbaker, L. O., 270  
Darbishire, O. V., 39  
D'Arcy, R. F., 49  
Dargan, E. P., 63  
Dargan, H. McC., 61  
Darmady, E. S., 174  
d'Aronberg, F. A., 4  
Darrach, W., 235  
Darroch, A., 91  
Darst, W. H., 302  
Darwall-Smith, G. F.,  
168  
Darwin, C. G., 50  
Das, J. N., 299  
Das, L. B., 132  
Das, L. H. N., 132  
Das, L. J., 131  
Das, L. R., 127  
Das, L. S., 132  
Das, Miss M., 132  
Das, M., 127  
Das, R., 133  
Das, S., 299  
Dass, Miss C., 13  
Dass, D., 263  
Dass, L. A., 112  
Dass, T. N., 200  
Dastur, K. B. F. M., 31  
Dates, H. B., 70  
Datta, G., 133  
Daubigny, T., 221  
Daughters, F., 217  
Daunt, Miss B. M., 159  
Dauth, A., 221  
Dauth, G., 278  
Dauth, M. A., 135  
Dave, N. P., 27  
Davenport, 320  
Davenport, C. B., 72  
Davenport E., 317, 319  
Davenport, F. M., 71  
Davenport, H. J., 123  
Davenport, R. W., 329  
David, C. W., 41  
David, H. E., 63  
David, T. W. E., 306  
Davidson, A., 197, 198  
Davidson, Hon. Sir C.,  
219  
Davidson, C. G., 305  
Davidson, C. R., 180  
Davidson, Lt. - Col.  
D. M., 131  
Davidson, H. A., 2  
Davidson, H. F., 241,  
275  
Davidson, I., 239  
Davidson, J., 322  
Davidson, J. G., 322  
Davidson, J. H., 293  
Davidson, P., 145  
Davidson, P. E., 300  
Davidson, Sir W. E., 306  
Davidson, W. L., 2  
Davies, A. E., 74  
Davies, A. M., 159  
Davies, C., 344  
Davies, C. L., 16  
Davies, Mrs. C. S., 201  
Davies, Maj. D., 3, 59  
Davies, D. C., 66  
Davies, D. S., 39  
Davies, F. L., 213  
Davies, G. A., 105  
Davies, G. A. T., 2, 60  
Davies, G. Me D., 159  
Davies, G. R., 110, 273  
Davies, J. G., 144  
Davies, L. R., 135  
Davies, Miss M. H. L.,  
144  
Davies, T. R., 219  
Davies, T. W., 19  
Davies, W. A., 158, 159  
Davies, W. W., 80  
Davies-Coley, R., 168  
Davis, B. B., 142, 251  
Davis, B. H., 249  
Davis, B. M., 266  
Davis, C. L., 326  
Davis, D. J., 319, 320  
Davis, D. M., 15  
Davis, E. F., 246  
Davis, E. G., 124, 251  
Davis, E. R., 142  
Davis, G. R., 142, 329  
Davis, G. W., 302  
Davis, H. B., 245  
Davis, H. N., 55  
Davis, H. Welford, 3  
Davis, H. W. C., 257  
Davis, J. C., 245  
Davis, J. D., 274  
Davis, J. E., 302  
Davis, J. F., 163  
Davis, J. H., 3  
Davis, J. I., 141  
Davis, J. L., 286  
Davis, J. S., 54  
Davis, L. S., 30  
Davis, O. C. M., 39  
Davis, P. J., 110  
Davis, R. 34, 35  
Davis, Miss R., 135  
Davis, S. B., 263, 269  
Davis, S. G., 17  
Davis, Miss S. R., 24  
Davis, T. L., 33  
Davis, W. T., 326  
Davis, W. W., 136  
Davisman, S. H., 25  
Davison, A. T., 54  
Davison, C., 319  
Davission, S. C., 30  
Daw, H., 344  
Dawes, C. L., 55  
Dawes, H. F., 313, 314  
Dawes, M. C. B., 183  
Dawkins, R. McG., 256  
Dawkins, Sir W. B.,  
190, 209  
Dawson, A. B., 283  
Dawson, The Rt. Hon.  
Lord, 148, 152  
Dawson, G. G., 258  
Dawson, J. W., 94  
Dawson, M. W., 32  
Dawson, P. M., 203  
Dawson, R. W., 142  
Dawson, W. 48  
Day, A. L., 333  
Day, Miss A. L., 281  
Day, C., 227  
Day, E. E., 54  
Day, Miss E., 141  
Day, E. W., 269  
Day, G. P., 227  
Day, J. E., 76  
Day, J. G. F., 84  
Day, Miss M., 156  
Day, R. P., 17  
Day, W. B., 317, 322  
Dayal, J., 264  
Dayal, L. D., 132  
Dayal, P., 200  
De, K. P., 279  
Dealey, J. Q., 275  
Dean, A. D., 232  
Dean, B., 233, 240,  
241  
Dean, Miss E., 101, 83  
Dean, H., 89  
Dean, H. H., 111  
Dean, H. R., 207  
Dean, J. McD., 286  
Dean, L. W., 121  
Deane, S. N., 247  
de Arteaga, F., 29  
Dearmer, P., 157  
Dearholt, H. E., 203  
Dearborn, N., 337  
Dearborn, W. F., 53  
Deans, H., 156  
de Bacourt, P., 233  
de Banfre, W. L., 141  
De Barr, E., 245  
Debbnman, P., 295  
de Beaumont, V., 309  
Debel, Niels H., 18  
Debono, F., 321  
Debono, G., 321  
De Busk, B., W. 99  
Decarie, J., 221  
de Castelveccchio, Miss  
L. P., 157  
de Champ, S. E., 309  
Dechevrens, M., 285  
Decker, C. E., 245  
Decker, E. H., 319  
De Con, E. E., 99  
de Crespigny, C. T. C.,  
4  
Deeds, J. F., 329  
Deering, R. W., 69  
De Farges, J. R., 326  
de Forest, J. B., 249  
Degani, Miss M., 85  
Degeler, A., 277  
Degeler, L., 221  
De Haan, F., 41  
Deighton, F., 47  
de Kock, G., 252  
De Laak, H. J., 286  
Delabarre, E. B., 275  
de Labillière, P. F. D.,  
260  
De Laey, W. H., 328  
de Laguna, Mrs. G. M.  
A., 41  
de Laguna, T. de L., 41  
Delano, C. C., 283  
Delepine, A. S., 207  
Delf, Miss E. M., 161  
Deller, E., 149  
De Long, J. H., 90  
Delorme, V., 220  
de Lorimer, Hon. C.,  
275  
de Lorimer, Judge  
C. C., 221  
Delp, Miss W. E., 98  
Delpit, Miss L., 247  
De Lucy, A. T., 309  
De Lucy, R. E., 254  
Delwiche, E. J., 203  
Demarest, W. H. S.,  
226  
Demers, L. J., 221  
Demers, Hon. L. P., 278  
Demers, Judge P., 221  
Demey, P., 29  
Deming, H. G., 143  
Deming, W. C., 134  
Dempsey, M., 85  
Dempster, A. J., 64  
Demoreest, D. J., 75, 77  
Dench, E. B., 237  
Dendy, A., 151, 157  
Denham, H. G., 37  
Denham, W. S., 173  
Denig, R. C., 234  
Denison, R. B., 267  
Denison, W. K., 210  
Dennie, C. C., 137  
Dennis, A. L. P., 200  
Dennis, C. M., 289  
Dennis, J. U., 17  
Dennis, L. M., 122  
Dennison, J. D., 260  
Denniston, R. H., 201  
Denny, A., 293  
Denny, J. V., 75  
Denslow, H. McK., 238  
Densmore, F., 332  
Dent, E. J., 52  
Denton, C., 100  
Denton, F. M., 164  
Denton, J., 101  
De Onis, F., 232  
de Pierpont, A., 315  
Derby, Earl of, 143, 146  
Derby, S. C., 75  
De Rhodes, Miss H. M.,  
253  
Derick, Miss C. M., 219  
Derleth, C., 25  
Dermer, E. C., 259  
Dermoddy, L. A., 251  
Derome, W., 221  
Derry, G., H., 137  
D'Ery, Miss L., 264  
Desai, W. S., 200  
De Santi, P. R. A., 172  
Desaulniers, E., 221  
Des Barres, F. W. W.,  
283  
Desch, C. H., 107  
de Setten, F. M., 196  
De Shryver, J. B., 250  
Desjardins, J. L., 275  
de Selincourt, E., 29  
de Sousa, D., 172  
de Souza, D. H., 157  
Despecher, F. J., 251  
Despott, G., 321  
Dessaignet, J., 2  
Detlefsen, J. A., 319  
Dettman, H. S., 12  
Detweiler, A. K., 251  
Deutsch, M. E., 23  
Devcreaux, R., 323  
de Villiers, J. A. J. 177  
De Vine, J. F., 238  
Devitt, E. L., 324  
Devonshire, the Duke  
of, 139, 254



- de Vos, P. J. G., 304  
 Dewar, Sir J., 47, 185, 186, 190  
 Dewar, R., 280  
 Dewey, F. H., 343  
 Dewey, F. P., 337  
 Dewey, H., 182  
 de Wheeler, B. L., 22  
 Dewhurst, C. B., 207  
 Dewhurst, R. P., 256  
 Dewing, H. B., 273  
 de Winton, F. H., 260  
 Dewitt, C., 63  
 De Witt, Mrs. L. M., 64  
 De Witt, N. W., 309  
 Dewsbury, F., 204  
 Dewsnup, E. R., 318  
 De Wulf, M., 309, 312  
 Dexter, J. S., 291  
 Dey, W. M., 61  
 De Yturbide, A., 324  
 de Zulusta, F., 258  
 D'Haulier, Miss M. M., 201  
 Dhawan, P. D., 126  
 Dible, J. H., 207  
 Dicey, R. V., 258  
 Dickens, B., 92  
 Dickerman, Miss C. G., 119  
 Dickerman, S. O., 341  
 Dickinson, Miss J. B., 297  
 Dickerson, E. T., 17  
 Dickerson, J. S., 62  
 Dickerson, Miss M. C., 239, 240  
 Dickie, A. C., 206, 209  
 Dickens, H. C., 258  
 Dickinson, 272  
 Dickinson, E., 240  
 Dickinson, Miss E. S., 297  
 Dickinson, G. L., 49  
 Dicksee, L. R., 150, 162  
 Dickson, E. C., 300  
 Dickson, H. N., 280  
 Dickson, I. G., 203  
 Dickson, J. F., 99  
 Dickson, L. E., 63  
 Diederichs, H., 125  
 Diefenderfer, A. A., 27  
 Diefenderfer, G. C., 234  
 Diemer, H., 303  
 Dieterich, E. O., 120  
 Dietrich, W. F., 300  
 Digby, S., 185  
 Dill, H. R., 120  
 Dill, Sir S., 21, 22  
 Diller, T., 269  
 Dillinghurst, R. B., 99  
 Dilling, W. J., 106  
 Dillon, T., 103  
 Dimmitt, Miss, 199  
 Din, C., 133  
 Din, M., 133  
 Dines, J. S., 180  
 Dines, L. H. G., 181  
 Dines, L. L., 291  
 Dines, W. H., 181  
 Dingemans, G. F., 109  
 Dinham, C. H., 182  
 Dinsmore, S. C., 281  
 Dirstine, P. H., 276  
 Dishong, J. M., 251  
 Disney, A. N., 190  
 Disque, F. C., 302  
 Dittmar, G. W., 320  
 Dixey, F. A., 260, 261  
 Dixon, A. C., 21, 22  
 Dixon, A. E., 78  
 Dixon, A. F., 83  
 Dixon, A. L., 257  
 Dixon, E. E. L., 182  
 Dixon, F. H., 273  
 Dixon, H. B., 190, 206  
 Dixon, H. H., 83  
 Dixon, J. M., 196  
 Dixon, R. B., 53  
 Dixon, S. M., 165  
 Dixon, S. W., 161  
 Dixon, W. E., 47, 157  
 Dixon, W. F., 246  
 Dixon, W. M., 105  
 Doak, Miss E. C., 298  
 Doak, H., 110  
 Doak, W. F., 187  
 Doane, R. W., 300  
 Dobbie, Sir J. H., 180  
 Dobbins, G. W., 16  
 Dobbins, L., 92  
 Dobbins, J. T., 61  
 Dobson, Major G. C., 108  
 Dobson, J. F., 38  
 Dochez, A. R., 15  
 Dock, G., 288  
 Dockeray, F. C., 137  
 Dodd, S., 172  
 Dodd, C. H., 262  
 Dodd, L. H., 343  
 Dodd, V. A., 77  
 Dodd, W. E., 63  
 Dodd, W. F., 63  
 Dadds, H. W., 69  
 Dadds, J. M., 46, 48  
 Dadds-Parker, A. P., 256, 257  
 Dodge, Miss B. F., 201  
 Dodge, C. H., 332  
 Dodge, D. K., 317  
 Dodge, R., 216  
 Dodge, R. E. N., 201  
 Dodgson, C., 177  
 Dods, G. N., 264  
 Dodson, J. M., 62, 64  
 Dodson, W. R., 21, 46, 79, 230  
 Dolamore, W. H., 174, 175  
 Dollin, Viscount, 191  
 Dolling, Miss W. R., 98  
 Dollman, J. G., 178  
 Dollo, A., 221, 222  
 Domonoske, A. B., 25  
 Donagan, A. E., 29  
 Donald, A., 207  
 Donald, Miss C. B., 305  
 Donaldson, H. H., 264  
 Donaldson, J. W., 107  
 Donaldson, M., 166  
 Doncaster, L., 48, 145  
 Donnally, H. H., 327  
 Donnan, F. G., 150, 155, 190, 194  
 Donnelly, Miss L. M., 41  
 Donovan, D. D., 78  
 Donovan, R., 85  
 Doolittle, A., 228  
 Doolittle, Mrs. A. H., 249  
 Dootson, F. W., 49  
 Dora, L., 245  
 Dorcas, H. C., 120  
 Dore, S. E., 172  
 Doré, V., 222  
 Dorion, Hon. C. E., 278  
 Dorner, H. B., 319  
 Dorsey, H. W., 331  
 Dorsey, L. M., 253  
 Dorvaux, J. E., 221, 277  
 Dorward, J. A., 22  
 Doten, S. B., 282  
 Dotta, R., 43  
 Douay, G., 287  
 Dougherty, J. E., 24  
 Dougherty, P. E., 303  
 Dougherty, R. P., 18  
 Doughy, H. W., 10  
 Doughty, W. H., 341  
 Douglas, C. C., 196  
 Douglas, C. G., 260  
 Douglas, E. M., 329  
 Douglas, F. W., 74  
 Douglas, H. R., 99  
 Douglas, J., 237  
 Douglas, J. A., 147  
 Douglas, J. S. C., 293  
 Douglas, M. S., 60  
 Douglas, W., 279  
 Douglas, W. W., 237  
 Douglas-Crawford, D., 145  
 Douglass, A. A., 277  
 Douglass, M. H., 98  
 Dover, A. T., 162  
 Dow, A. W., 232  
 Dow, D. R., 284  
 Dow, L. H., 115  
 Dow, P. S., 115  
 Dowd, C. N., 234  
 Dowd, J., 245  
 Dowdall, H. C., 144  
 Dowden, J. W., 93, 94  
 Dowell, A. A., 97  
 Dowling, D. B., 254  
 Dowling, E. A. C., 39  
 Dowling, J. J., 85  
 Dowling, L. W., 201  
 Dowling, P. A. E., 86  
 Downes, W. A., 235  
 Downey, J., 78  
 Downey, J. E., 134  
 Downey, J. W., 16  
 Downey, M. H., 4  
 Downie, J. W., 105  
 Downing, A. S., 6  
 Downing, E. R., 65  
 Downing, W. B., 138  
 Downs, B. W., 50  
 Doyle, H. D., 325  
 Doyne, P. G., 166  
 Dozier, H. D., 115  
 Drabble, F., 159  
 Drachsler, J., 248  
 Drake, D., 271  
 Drake, H. L., 260  
 Drake, J., 291  
 Draper, W. K., 234  
 Drennan, A. M., 87  
 Drennan, C. M., 126  
 Drennan, M. R., 58  
 Dresden, A., 201  
 Dresser, J. A., 254  
 Dreyer, J., 92  
 Drew, E. R., 300  
 Drew, G. A., 342  
 Drew, W. P., 102  
 DREWITT, J. A. J., 260  
 Dreyer, G., 255, 258  
 Dreyer, G. P., 319, 320  
 Drinkard, Jr., A. W., 30  
 Drinker, C. H., 54  
 Drinker, H. S., 26  
 Drinkwater, T. W., 93  
 Droppers, G., 341  
 Drown, E. S., 56  
 Drown, L. R., 27  
 Drucker, A. P. R., 74  
 Drummond, Miss, 29  
 Drummond, A. M., 123  
 Drummond, D., 88, 89  
 Drummond, J. M. F., 105  
 Drummond, P., 128  
 Drummond, R. J., 108  
 Drummond, R. R., 253  
 Drury, A., 101  
 Drury, N. B., 24  
 Dryerre, H., 95  
 Dryhurst, A. R., 177  
 Duane, W., 53  
 Dubeau, E., 221  
 Du Bois, E. F., 123  
 Dubray, C. A., 328  
 Duchein, F., 221, 277  
 Duckworth, H. T. F., 309  
 Duckworth, W. L. H., 48, 50  
 Dudden, F. H., 260  
 Dudes, B., 234  
 Dudgeon, L. S., 151, 167  
 Dudgeon, Miss W., 8  
 Dudley, B., 303  
 Dudley, Miss G., 63  
 Dudley, W. H., 200  
 Duchren, J. F. M., 250  
 Duerden, J. E., 109  
 Duff, J. T., 270  
 Duff, J. W., 89  
 Duff, R. A., 105  
 Duffee, F. W., 202  
 Duffield, C. A. W., 344  
 Duffield, F. A., 145  
 Duffield, H. G., 272  
 Duffus, W. MacG., 136  
 Dufresne, H., 221  
 Dugan, R. S., 274  
 Duggar, B. M., 288, 289  
 Duggar, J. F., 12  
 Duhamel, A., 221  
 Dujardin, G., 221  
 Duke, J. W., 246  
 Duke, W. H., 50  
 Bulieux, E., 221  
 Dulles, J. H., 274  
 Du Mez, A. G., 336  
 Dun, W. G., 107  
 Dun, W. S., 306  
 Dunabin, R. H., 118  
 Duncan, C. S., 65  
 Duncan, D. C., 302  
 Duncan, F. M., 190  
 Duncan, G., 2, 284  
 Duncan, G. M., 2, 227  
 Duncan, J., 251, 305  
 Duncan, J. C., 262  
 Duncan, J. W., 251  
 Duncan, R. S., 314  
 Duncan, T. B., 107  
 Duncan, T. S., 287  
 Dundas, R. H., 269  
 Dundas, the Rt. Hon. J. L., 43  
 Dundon, J., 78  
 Dungan, Miss E. E., 246  
 Dunham, G. E., 71  
 Dunham, H., 236  
 Dunham, Miss M., 31  
 Duniway, C. A., 74  
 Dunkel, O., 287  
 Dunlap, C. B., 243  
 Dunlap, C. G., 136  
 Dunlap, J. H., 121  
 Dunlap, K., 14  
 Dunlap, O. E., 12  
 Dunlea, W. J., 79  
 Dunlop, F. W., 87  
 Dunlop, W. C., 21  
 Dunlop, W. R., 21  
 Dunmore, W. T., 68

# INDEX TO NAMES

- Dunn, A. D., 250  
Dunn, Miss F., 142  
Dunn, F. S., 99  
Dunn, J., 328  
Dunn, J. S., 29  
Dunn, L. A., 167  
Dunn, W. A., 270  
Dunncliff, H. B., 131  
Dunning, H. S., 234  
Dunning, J. C., 275  
Dunning, W. A., 232  
Dunning, W. B., 234  
Dunstan, M. J. R., 344  
Dunstan, W. R., 179  
Dupau, Mdle. S., 29  
Du Priest, J. R., 316  
Durand, W. F., 300  
Durham, C. L., 122  
Durham, D. B., 71  
Durham, Earl of, 88  
Durham, W. H., 228  
Durkee, F. W., 210  
Durnford, Sir W., 46, 49  
du Roure, J. W., 219  
Durrant, J. H., 178  
Dusham, E. H., 302  
Dussault, N. A., 278  
Dutcher, G. M., 216  
du Toit, A. G., 262  
du Toit, D. F., 304  
du Toit, P. J., 58  
Dutt, B., 132  
Dutt, G. L., 132  
Dutt, K., 44  
Dutt, P. N., 129  
Dutt, S. K., 132  
Dutton, G. B., 341  
Duval, P. R., 245  
Duvall, T. G., 80  
Dwerryhouse, A. R., 22  
Dwyer, R. J., 310  
Dwyer, T. J., 251  
Dyer, H. G., 321  
Dyde, H. E., 268  
Dyche, S. W., 128  
Dye, C. A., 76  
Dye, W. S., 302  
Dyer, G. W., 225  
Dyer, H. C., 286  
Dykema, P. W., 200  
Dykes, D. O., 92  
Dykes, F. J., 50, 51  
Dykstra, C. A., 136  
Dymant, C. V., 100  
Dyonnet, E., 221, 222  
Dyson, Sir F. W., 180, 186  
Dyson, W., 207  
Eager, G. B., 199  
Eakle, A. S., 23  
Eames, A. J., 124  
Eames, E. L., 198  
Eames, H. W., 159  
Eardley, F. W., 3  
Earhart, Lida B., 143  
Earhart, R. F., 75  
Earhart, W., 268  
Earl, G. H., 34  
Earle, Miss N. L., 72  
Early, D. T., 197  
Earnest, J. P., 326  
Earp, F. R., 163  
Easby-Smith, J. S., 324  
Eason, H. L., 148, 168  
Eason, J., 93  
East, E. M., 36, 53  
Easterfield, T. H., 340  
Eastman, C., 9  
Eastman, Miss L. A., 68  
Eastman, M., 322  
Eastman, Miss M., 247  
Eastwood, R. A., 207  
Eastwood, T., 182  
Eastwood, T. C., 207  
Eaton, B. J., 128  
Eaton, G. F., 230  
Eaton, J. W., 291  
Eaves, Miss E. C., 293  
Ebeling, H. L., 13  
Ebirle, A. G., 287  
Eby, H. L., 135  
Eccles, F. J., 261  
Eccles, W. H., 162  
Eccles, W. McA., 166  
Eckfeldt, H., 27  
Eckhart, W. R., 300  
Eckels, G. P., 268  
Edgington, A. S., 47, 51  
Eddy, A. J., 25  
Eddy, C. L., 70  
Eddy, Miss H. G., 25  
Eden, T. W., 170  
Edgar, C. B., 147  
Edgar, C. S., 304  
Edgar, J., 284  
Edgar, J. C., 123  
Edgar, O. P., 309  
Edgell, Miss B., 152, 160  
Edgell, G. H., 54  
Edgerton, F., 241  
Edgerton, J. W., 229  
Edgeworth, F. H., 39  
Edgeworth, F. Y., 256, 258  
Edie, E. S., 2  
Edinburgh, Rt. Hon. Lord Provost of, 94  
Edington, G. H., 106  
Edison, E. O., 141  
Edkins, J. S., 152, 160  
Edmonds, J. L., 319  
Edmondson, T. W., 236  
Edmonds, A., 172  
Edmunds, C. C., 238  
Edmunds, P., 16  
Edmunds, S. E., 287  
Edney, D. J. R., 180  
Edsall, D. L., 54  
Edwards Ker, D. R., 231  
Edwards, Lt. Col. A. R., 232  
Edwards, C. W., 111  
Edwards, D., 249  
Edwards, D. S., 305  
Edwards, E., 3, 177  
Edwards, E. J., 107  
Edwards, F. W., 178  
Edwards, H. J., 48  
Edwards, J. T., 153  
Edwards, O. M., 269  
Edwards, P. H., 8  
Edwards, R., 145  
Edwards, R. S., 258  
Edwards, R. W. K., 157  
Edwards, W. N., 178  
Effinger, A. M., 250  
Ehrl, O. O., 61  
Egan, M. F., 85  
Egbert, J. C., 232  
Egerton, C. W., 12  
Egerton, H. E., 256, 258  
Eggar, Miss M. E., 208  
Egging, H. F., 92  
Eggers, G. W., 66  
Eggers, H. E., 142, 251  
Egleston, C., 123  
Ehrenfest, H., 286  
Eichenlaub, F., 100  
Eichborn, A., 238  
Eigenmann, C. H., 30  
Eikenberry, W. L., 137  
Einarsso, S., 23  
Eisenhart, L. P., 274  
Eisenlohr, B. A., 75  
Ekans, A. H., 46  
Eland, J. B., 163  
Eld, P. T., 190  
Elder, J. R., 2  
Elderkin, G. W., 273  
Elgood-Turner, Mrs O., 29  
Eliot, E., jr., 234  
Eliot, S. A., 248  
Elkin, W. B., 30  
Elkus, Miss S. A., 247  
Elles, Miss G. L., 52  
Ellenwood, F. O., 125  
Ellerman, P., 262  
Ellershaw, H., 89  
Ellery, E., 271  
Elliott, A., 166  
Elliott, D., 11  
Elliott, E. C., 217  
Elliott, Miss R., 24  
Elliott, Col. R. H., 176  
Elliott, A. R., 319  
Elliott, B. G., 202  
Elliott, C. A., 50  
Elliott, E., 23, 25  
Elliott, E. B., 256, 258  
Elliott, E. S., 233  
Elliott, G. R., 235  
Elliott, G. T., 123  
Elliott, H. R., 326  
Elliott, O. L., 299  
Elliott, P. N., 322  
Elliott, T. R., 171  
Ellis, A., 11  
Ellis, A. G. G., 123  
Ellis, A. L., 177  
Ellis, C. A., 318  
Ellis, D., 107  
Ellis, Miss E. D., 297  
Ellis, G. E., 324  
Ellis, H. M., 253  
Ellis, R. W., 238  
Ellis, S. J., 29  
Ellis, W. H., 310  
Ellison, E. M., 337  
Ellison, G., 245  
Ellison, Rev. W. F. A., 11  
Ellison-Macartney, Rt. Hon. Sir W. G., 263  
Ellsworth, C. E., 329  
Elmer, H. C., 122  
Elmer, M. C., 136  
Elmer, W. P., 236  
Elmore, J., 300  
Elmslie, R. C., 166  
Eloesser, L., 301  
Elrod, W. J., 217  
Elsberg, C. A., 237  
Elsden, J. V., 156  
Else, J. E., 99  
Else, W. J., 123  
Else, H. Mck., 137  
Elsom, J. C., 201  
Elterich, T. J., 269  
Elton, O., 144  
Elvove, E., 336  
Elwell, F. H., 200  
Elwes, J. H., 192  
Elwood, C. F., 25  
Elwood, P. H., 76  
Elworthy, R. R., 172  
Ely, L. W., 300  
Ely, R. T., 200  
Ember, A., 14  
Embleton, D., 171  
Embody, G. C., 124  
Emch, A., 318  
Emden, A. B., 260  
Emerick, C. F., 247  
Emerson, C. P., 30  
Emerson, O. F., 68  
Emerson, R. A., 124  
Emerson, W. R. P., 211  
Emery, F. P., 115  
Emery, N. M., 26  
Emery, W. D'este, 172  
Emig, E. H., 268, 269  
Emitage, O., 21  
Emley-Elliott, P., 138  
Emmel, V. E., 319, 320  
Emrys-Roberts, E., 60  
Endelman, J., 197  
Endsley, L. E., 268  
Engberg, C. C., 141, 143  
Engel, E. F., 136  
Engelbach, W., 286  
Enger, M. L., 318  
Engineer, M. R., 127  
England, Miss M., 141  
Englehardt, N. L., 233  
Englert, E., 270  
English, Miss A., 103  
English, Sir C., 168  
English, D., 123  
English, F. L., 287  
English, S., 293  
Engman, M. F., 288  
Ennos, F. R., 180  
Eno, A. L., 316  
Eno, Miss E., 199  
Eno, F. H., 77  
Ensign, F. C., 121  
Erb, J. L., 317, 319  
Erdman, C. R., 274  
Erdman, H. E., 76  
Erf, O., 76  
Erlanger, J., 288  
Ernst, Miss A. B., 201  
Ernst, F. A., 201  
Ernst, H. C., 54  
Erskine, J., 232  
Erwin, F. A., 236  
Erwin, J. T., 325  
Erwin, Major S. L., 228  
Esdaile, A., 155  
Esdaile, A. J. K., 177  
Espenshade, A. H., 301  
Espinosa, A. M., 300  
Essig, E. O., 25  
Estabrook, A. H., 72  
Estabrook, L. M., 333  
Estes, C., 137  
Estes, D. F., 114  
Ester, T. C., 9, 10  
Ester, W., 27  
Etcheveny, B. A., 25  
Ettinger, R. P., 237  
Eulich, F. W., 140  
Eustice, J., 297  
Eustis, Miss W., 199  
Evans, A., 172  
Evans, Miss A. C., 336  
Evans, A. J., 145  
Evans, Sir A. J., 188, 256  
Evans, A. M., 147  
Evans, A. W., 228  
Evans, B. D., 119  
Evans, C., 163  
Evans, C. McK., 31  
Evans, D., 29, 53, 57, 60  
Evans, D. J., 12  
Evans E., 60



- Evans, E. J., 206  
 Evans, E. M., 234  
 Evans, F. N., 319  
 Evans, H. T., 60  
 Evans, I. H. N., 307  
 Evans, J., 111  
 Evans, J. E., 74  
 Evans, J. J., 29  
 Evans, J. L., 3  
 Evans, J. R. C., 36  
 Evans, J. S., 203  
 Evans, J. T., 20, 158  
 Evans, J. W., 159  
 Evans, L. W., 344  
 Evans, M. B., 75  
 Evans, N. N., 219  
 Evans, P. M., 161  
 Evans, Sir R. J., 259  
 Evans, S., 147  
 Evans, T. J., 168  
 Evans, W. E., 96  
 Evans, W. F., 260  
 Evans, W. L., 75  
 Evans, W. P., 67  
 Eve, A. S., 219, 254  
 Eve, D., 225  
 Eve, D., jr., 225  
 Everett, G. A., 124  
 Everett, W. G., 275  
 Everidge, J., 172  
 Evershed, J., 296  
 Ewart, A. J., 213, 298  
 Ewart, P. C., 114  
 Ewart, G. A., 168  
 Ewart, J. S., 91  
 Ewell, G. B., 282  
 Ewing, A. E., 288  
 Ewing, H. W., 80  
 Ewing, J., 92, 123  
 Ewing, Sir J. A., 91  
 Ewing, T., 324  
 Exham, G. A., 83  
 Eycleshymer, A. C., 317, 319, 320  
 Eyre, J., 190  
 Eyre, J. W. H., 150, 168  
 Eyster, J. A. E., 203  
  
 Faber, H. K., 300  
 Fabyan, M., 55  
 Fackenthal, F. D., 232  
 Fadyen, J. F., 128  
 Fagan, C. E., 178  
 Fagan, P. N., 302  
 Fagge, C. H., 168  
 Fagnani, C. P., 239  
 Fahnstock, 271  
 Fairbank, H. A. T., 172, 174  
 Fairbank, J. P., 276  
 Fairchild, D. G., 331  
 Fairchild, F. R., 228  
 Fairclough, H. R., 299  
 Fairley, B., 309  
 Fairlie, J. A., 317  
 Falconer, J. D., 105  
 Falconer, J. I., 76  
 Falconer, Sir R. A., 308, 312  
 Fales, H. A., 234  
 Fales, Miss J., 233  
 Falk, D. B., 270  
 Fall, F. A., 236  
 Falley, Eleanor W., 18  
 Fallon, D., 321  
 Famintzin, A., 184  
 Fancher, P. A., 71  
 Fansler, D. S., 233  
 Fantham, H. B., 126  
 Faragher, P. V., 137  
 Farbridge, M. H., 206  
 Farham, W. E., 211  
 Faris, E., 63  
 Faris, R. L., 328, 336  
 Farley, F. E., 216  
 Farley, F. L., 289  
 Farman, N. H., 274  
 Farmer, C. P., 217  
 Farmer, Sir F. M., 169  
 Farmer, J. B., 165  
 Farmer, J. H., 313  
 Farmer, W. R., 270  
 Farnam, H. W., 228  
 Farnell, L. R., 255, 257  
 Farnham, C. S., 228  
 Farnham, D. T., 286  
 Farnsworth, C. H., 232  
 Farnsworth, J. G., 68  
 Farnsworth, W. O., 269  
 Farnum, Jessica L., 334  
 Farquharson, A. S. L., 257  
 Farquharson, J. M., 93, 94  
 Fan, C. C., 67  
 Farr, C. H., 120  
 Farr, H. A., 228  
 Farr, M. S., 274  
 Farran, A. C., 32  
 Farrand, H. W., 228  
 Farrand, W., 272  
 Farrant, R., 172  
 Farrell, B. P., 235  
 Farrell, F. D., 210  
 Farrington, C. W., 211  
 Farrington, E. H., 202  
 Farrington, O. C., 67  
 Farwell, H. W., 234  
 Faucher, P. V., 278  
 Faul, J. H., 254, 309, 314  
 Faunce, W. H. P., 275  
 Faurot, A. A., 303  
 Faurot, F. W., 223  
 Faust, A. B., 122  
 Fauver, E., 216  
 Faville, A. D., 134, 135  
 Favreau, L., 222  
 Fawcett, E., 39  
 Fawcett, H. S., 24  
 Fawcett, J., 78, 79, 167  
 Fawsiitt, C. E., 306  
 Fay, C. E., 210  
 Fay, C. R., 48, 50  
 Fay, P. B., 23  
 Fay, S. B., 247  
 Fazel, M. A. M., 127  
 Fazl-i-Hagz, 131  
 Fearnside, W. G., 293  
 Febiger, C. C., 266  
 Pedden, W. F., 168  
 Peemster, S. C., 281  
 Fegan, Miss E. S., 52  
 Fegan, H. J., 324  
 Fehr, C. D., 90  
 Feldman, I., 169  
 Felgar, J. H., 245  
 Fell, H. G., 101  
 Fell, T., 10, 11  
 Fellock, H. M., 34  
 Felton, L. D., 15  
 Fenn, W. R., 55  
 Fenska, R., 217  
 Fenton, E. W., 231  
 Fenton, H. J. H., 47, 190  
 Fenton, R. A., 121  
 Fenton, W., 163  
 Fenton, W. J., 170  
 Fenwick, C. G., 41  
 Fenwick, W. S., 170  
 Fenzel, W. H., 12  
 Fergus, A. F., 107  
 Ferguson, A., 209  
 Ferguson, The Hon. Mr. Justice D. G., 305  
 Ferguson, E. S., 245  
 Ferguson, H. L., 87  
 Ferguson, H. S., 207, 208  
 Ferguson, J., 310  
 Ferguson, J. A., 302  
 Ferguson, J. De L., 80  
 Ferguson, J. H., 93  
 Ferguson, R., 196  
 Ferguson, The Rt. Hon. Sir R. C. M., 306  
 Ferguson, M., 106, 137  
 Ferguson, O. J., 141  
 Ferguson, W. I., 310  
 Ferguson, W. S., 53, 56  
 Ferguson, D. C., 92  
 Ferni, N., 210  
 Fernoi, L. L., 45  
 Fernald, M. L., 53  
 Fernald, W. E., 211  
 Fernandes, D. J., 210  
 Fernberger, S. W., 343  
 Fernow, B. E., 310  
 Ferrall, A. T., 87  
 Ferrand, G., 287  
 Ferree, C. E., 41  
 Ferree, J. A., 76  
 Ferrer, H. T., 341  
 Ferrier, R. M., 39, 40  
 Ferris, Miss E., 69  
 Ferriess, E. N., 245  
 Ferriess, H. B., 229  
 Ferrow, A., 220  
 Ferry, F. C., 71  
 Person, M. L., 325, 326  
 Fessenden, E. A., 303  
 Fetter, F. A., 272  
 Fettermann, J. C., 268, 269  
 Fewkes, J. W., 332  
 Finch, H. M., 296  
 Fickes, W. L., 270  
 Fiddes, E., 205, 206  
 Fiedler, H. G., 256  
 Field, A. J., 29  
 Field, G. C., 144  
 Field, I. A., 343  
 Field, J. A., 63  
 Field, J. H., 296  
 Field, S., 164  
 Fields, J. C., 254, 309, 314  
 Fife, R. H., 216  
 Filby, E. J., 318  
 Filby, F. T., 65  
 Filides, P., 169  
 Filley, H. C., 142  
 Fillion, M. Ph. J., 277  
 Fillion, Ph. J., 278  
 Filon, L. N. G., 148, 150, 155  
 Finch, A. A., 88  
 Finch, E. H., 329  
 Finch, J. K., 235  
 Finch, V. C., 201  
 Findahl, Miss M., 100  
 Findlay, A., 2, 3  
 Findlay, J., 126, 145  
 Findlay, J. J., 208  
 Findlay, W., 313  
 Findley, A. E., 293  
 Fine, H. B., 272, 274  
 Finlay, G. I., 236  
 Finfrock, C. M., 68  
 Finlay, T. A., 85  
 Finlay, T. M., 92  
 Finlayson, J. N., 113  
 Finlayson, R. N., 4  
 Finley, F. G., 219  
 Finley, J. H., 6  
 Finley, P., 84  
 Finnegan, J. M., 21  
 Finney, J. M. T., 14  
 Fippin, E. O., 124  
 Firth, A. C. D., 172  
 Firth, Miss C. B., 52  
 Firth, C. H., 194, 256, 257  
 Firth, W. W., 88  
 Fischer, G. A., 4  
 Fischer, R., 200  
 Fiseher, C. A., 116  
 Fiset, L. J. N., 278  
 Fish, C. R., 200  
 Fish, H. D., 72, 73  
 Fish, J. C. L., 300  
 Fish, P. A., 124  
 Fishback, P. L., 339  
 Fishberg, M., 237  
 Fishenden, R. B., 209  
 Fisher, C. O., 343  
 Fisher, E. D., 237  
 Fisher, Miss F., 298  
 Fisher, G. C., 240  
 Fisher, Rt. Hon. H. A. L., 182, 258  
 Fisher, I., 228  
 Fisher, J. H., 170  
 Fisher, R. T., 36, 55,  
 Fisher, W. C., 237  
 Fisher, W. K., 300  
 Fishman, C. J., 246  
 Fisk, W. W., 124  
 Fiske, 271  
 Fiske, C. H., 55  
 Fiske, G. C., 201  
 Fiske, G. W., 249  
 Fiske, N. E., 24  
 Fiske, T. S., 233  
 Fison, A. H., 168, 169  
 Fitch, A. E., 288  
 Fitch, A. L., 253  
 Fitch, A. P., 9  
 Fitch, E., 71  
 Fitch, Miss F. M., 249  
 Fitchat, H., 109  
 Fitchett, F. W. B., 87  
 Fite, E. D., 271  
 Fite, W., 272  
 Fite, W. B., 234  
 Fitterer, J. C., 134  
 Fitzgerald, D. P., 78  
 Fitzgerald, J. A., 79  
 Fitzgerald, J. G., 310  
 Fitzgerald, J. M., 250  
 Fitz-Gerald, J. D., 317  
 Fitzgibbon, T. E., 78  
 Fitzhenry, Mrs., 163  
 Fitzmaurice, Sir M., 182  
 Fitzmaurice-Kelly, J., 151, 156  
 Fitzpatrick, Sir C., 278  
 Fitzpatrick, H. M., 124  
 Fitzpatrick, T. J., 143  
 Fitz-Simon, V. J., 250  
 Fitzwilliams, D. C. L., 173  
 Fitzpatrick, T. C., 46, 49  
 Flaherty, M. C., 23  
 Flanders, M., 338  
 Fleece, C. L., 274  
 Fleet, J. S., 182  
 Flehault, J., 222  
 Fleisher, M. S., 286  
 Fleming, A., 173  
 Fleming, B. P., 121  
 Fleming, C. E., 281

# INDEX TO NAMES

- Fleming, D. J., 239  
 Fleming, J. A., 150, 155  
 Fleming, Capt. J. F., 131  
 Fleming, R. A., 93  
 Fleming, V. R., 318  
 Fleming, W. L., 224  
 Flemming, P., 170, 171  
 Flemming, R. K., 312  
 Fletcher, F., 77  
 Fletcher, H. M., 166  
 Fletcher, J., 207  
 Fletcher, J. B., 232  
 Fletcher, L. J., 25  
 Fletcher, Miss M., 52  
 Fletcher, R. S., 10  
 Fletcher, S. W., 302  
 Fleure, H. J., 3  
 Flewelling, R. T., 196  
 Flinders-Petrie, W. M., 150, 155  
 Fling, F. M., 143  
 Flinn, Miss. I. M., 214, 215  
 Flint, A., 237  
 Flint, E. F., 63  
 Flint, E. M., 205  
 Flint, Miss H. C., 297  
 Flint, J. M., 229  
 Flint, L. N., 136  
 Flom, G. T., 317  
 Flossfeder, F. C. H., 25  
 Flower, C. T., 183  
 Flower, R. E. W., 177  
 Floyd, C., 55  
 Floyd, M. A., 245  
 Flugel, J. C., 155  
 Flux, A. W., 188  
 Flynn, Hon. E. J., 277  
 Flynn, T. T., 118  
 Focke, T. M., 70  
 Foenander, O. de R., 214  
 Foerster, N., 61  
 Foerster, R. F., 55  
 Fogg, R. J., 27  
 Foggie, W. E., 284  
 Follansbee, R., 329  
 Foley, A. L., 30  
 Foley, R. W., 114  
 Follins, C., 256  
 Follin, O., 54  
 Follis, R. H., 15  
 Folsom, D., 253  
 Folsom, J. W., 318  
 Foltz, C. E. B. K., 336  
 Fontaine, E., 222  
 Fontaine, M. C. A., 135  
 Foord, A. H., 86  
 Foot, W. W., 277  
 Foote, E. T., 241  
 Foote, F. S., 25  
 Foote, H. W., 55, 228  
 Foote, J. A., 46, 323  
 Foote, J. S., 250  
 Foraker, F. A., 268, 269  
 Forbes, C. N., 119  
 Forbes, E. W., 56  
 Forbes, G. S., 54  
 Forbes, J. F., 66  
 Forbes, M. D., 49  
 Forbes, N., 256  
 Forbes, S. A., 317  
 Force, J. N., 23  
 Ford, A. C., 149  
 Ford, A. H., 121  
 Ford, H. E., 309  
 Ford, H. J., 272  
 Ford, J., 54, 55, 56  
 Ford, J. D. M., 53  
 Ford, L. E., 196, 198  
 Ford, W. E., 228  
 Ford, W. M., 237  
 Ford, W. W., 15  
 Fordyce, A. D., 94  
 Fordyce, C., 142, 143  
 Fordyce, J. A., 234  
 Fordyce, W., 93  
 Foreman, J., 306  
 Forman, J., 77  
 Formosa, G., 321  
 Forrester, Miss K. T., 196  
 Forrester, R. B., 2  
 Forsdyke, E. J., 178  
 Forster, E. S., 206, 292  
 Forster, M. O., 147, 190  
 Forster, Major, W. H. C., 131  
 Forsyth, A. R., 161, 165  
 Forsyth, C. H., 115  
 Forsyth, D., 170  
 Forsyth, P. T., 152, 158, 159  
 Fort, S. J., 16  
 Fortier, E., 221  
 Fortier, R., 278  
 Fos, W. F., 90  
 Fosbroke, H. E. W., 238  
 Fosdick, H. E., 239  
 Foskett, E., 237  
 Foss, Miss H. M., 297  
 Foss, J. H., 300  
 Fossler, L., 143  
 Foster, B. O., 300  
 Foster, Miss D., 297  
 Foster, Sir G., 148, 154, 155  
 Foster, G. N., 141  
 Foster, G. O., 136  
 Foster, H. D., 115  
 Foster, H. L., 246  
 Foster, I. L., 301  
 Foster, M. B., 237  
 Foster, Miss M. L., 247  
 Foster, T. S., 38, 67  
 Foster, W., 274  
 Foster, W. S., 123  
 Foster, W. T., 90  
 Fothergill, W. E., 20.  
 Fotheringham, J. K., 151, 156  
 Fotheringham, J. T., 310  
 Fouche, L., 272  
 Foulds, Miss E., 28  
 Foulerton, A. G. R., 156, 175  
 Foulk, C. W., 75  
 Foulke, Miss K., 268  
 Foulkes, P. H., 231  
 Fovargue, H., 155  
 Fowle, P. E. Jr., 332  
 Fowler, A., 165, 186  
 Fowler, E. N., 69  
 Fowler, H. T., 275  
 Fowler, J. S., 92, 94  
 Fowler, R. C., 183  
 Fowler, W. A., 246  
 Fowler, W. W., 258  
 Foye, W. G., 216  
 Fox, C. S., 27, 45  
 Fox, D. R., 233  
 Fox, D. S., 303  
 Fox, Miss E. F., 98  
 Fox, H., 266  
 Fox, H. W., 187  
 Fox, J., 180  
 Fox, J. J., 328  
 Fox, W. S., 168, 195  
 Foxley, Miss B., 60  
 Foxwell, H. S., 151, 155, 162  
 Fraenkel, P. H., 264  
 Frahm, F. W., 198  
 Fraim, P. B., 27  
 Frame, J. E., 239  
 Frances, J. V., 294  
 Francis, A. G., 180  
 Francis, F., 39  
 Francis, H. T., 51  
 Francis, W. E., 39  
 Francisco, C. B., 137  
 Franck, E., 17  
 Francke, K., 56  
 Francks, R. A., 243  
 François, L., 221  
 François, L. J., 277  
 Frandsen, J. H., 142  
 Frandsen, P., 281  
 Frankau, C. H. S., 168  
 Frankforter, C. J., 143  
 Frankfurter, F., 55  
 Frankland, P. F., 190  
 Franklin, E. C., 300  
 Franklin, Miss H. M., 81  
 Franz, S. I., 325, 326  
 Franzen-Swedeleus, B., 313  
 Franzoni, C. W., 339  
 Frary, H. S., 202  
 Fraser, A., 237  
 Fraser, D. D., 208  
 Fraser, J., 2, 93  
 Fraser, Miss J., 36  
 Fraser, J. C. W., 14  
 Fraser, J. S., 94  
 Fraser, P., 39  
 Fraser, W. J., 319  
 Frazer, G. E., 65  
 Frazer, J., 83  
 Frazer, J. E., 173  
 Frazer, J. E. S., 150  
 Frazier, Sir J. G., 144  
 Frazier, E. G., 31  
 Frazier, J. R., 138  
 Freak, G. A., 127  
 Frear, W., 302  
 Freas, T. B., 234  
 Frecheville, W., 117, 165  
 Fred, E. B., 203  
 Frederick, R. C., 177  
 Frederick, W. H., 249  
 Freeborn, S. B., 25  
 Freeman, A. J., 16  
 Freeman, F. N., 65  
 Freeman, Miss F. R., 253  
 Freeman, J., 173  
 Freeman, R. G., 237  
 French, A. N., 99  
 French, C. A., 254  
 French, C. H., 51  
 French, F. C., 114  
 French, H. B., 265, 267  
 French, H. E., 110  
 French, H. S., 168  
 French, J. C., 14  
 French, J. G., 175  
 French, J. S., 343  
 French, R. S., 26  
 French, T. E., 77  
 Freshfield, D. W., 187  
 Fretwell, E. K., 233  
 Freund, E., 64  
 Frew, R. S., 172, 174  
 Friedenwald, H., 16  
 Friedenwald, E. B., 16  
 Friedenwald, J., 16  
 Friedlaender, L., 239  
 Friedman, L. V., 211  
 Eriel, E. S., 83  
 Fries, J. A., 302  
 Friesell, P. C., 270  
 Friesell, H. E., 270  
 Frigon, A., 221  
 Frink, H. W., 123  
 Fripp, Sir A., 167  
 Frisbie, L. E., 142  
 Frissell, L. F., 235  
 Fritch, F. E., 163  
 Frith, J., 207  
 Fritz, E., 25  
 Frizzell, J. H., 302  
 Froelicher, Hans, 18  
 Frogg, M. M., 143  
 Frontz, W. A., 15  
 Frost, E. B., 63  
 Frost, G. D., 115  
 Frost, J. N., 124  
 Frost, R., 39  
 Frost, W. D., 202  
 Frothingham, R., 235  
 Fry, F. R., 288  
 Fry, H. M., 27  
 Fry, J. D., 39  
 Fry, Rt. Hon. L., 38  
 Fry, M. W. J., 82, 83  
 Frye, P. H., 143  
 Fryer, C. E., 219  
 Fryer, J. C. F., 194  
 Fuller, A. H., 90  
 Fuller, Miss E. D., 56  
 Fuller, G. D., 64  
 Fuller, J. G., 202  
 Fuller, Miss M. B., 247  
 Fuller, M. O., 27  
 Fuller, S. C., 34  
 Fullerton, K., 249  
 Fulton, A., 284  
 Fulton, A. S., 177  
 Fulton, C. H., 70  
 Fulton, Miss E. L., 110  
 Fulton, J. S., 16  
 Fulton, T. A. W., 2  
 Fulton, W., 2  
 Fulton-Wood, F., 341  
 Furlong, J. R., 179  
 Furner, H., 180  
 Furness, C. E., 271  
 Furniss, E. S., 223  
 Furst, C., 243  
 Fletcher, T. B., 15  
 Fyfe, A., 221  
 Fyfe, W. H., 257  
 Fynes-Clinton, O. H., 19  
 Fyvie, W. W., 2  
 Gaba, M. G., 143  
 Gabbutt, J. P., 67  
 Gabell, D., 175  
 Gaboury, Rt. Rev. D. P., 135  
 Gabriel, R. H., 228  
 Gadd, C. J., 178  
 Gaddis, P. L., 142  
 Gadow, H., 48, 53  
 Gaehr, P., 123  
 Gaetz, H. H., 97  
 Gage, Lt.-Col. A. T., 295  
 Gage, V. R., 125  
 Gager, E. B., 229  
 Gagnon, A., 221  
 Gagnon, C., 277  
 Gahan, A. B., 338  
 Gain, J. H., 142  
 Gaines, E. F., 277

- Gaines, W. L., 319  
 Gains, 142  
 Gajjar, M. J., 127  
 Galbraith, J. S., 341  
 Gale, H. G., 63  
 Gale, H. S., 329, 339  
 Galea, R. V., 321  
 Gallagher, J. F., 225  
 Gallagher, Katherine J., 18  
 Gallaudet, B. B., 235  
 Gallie, D. M., 320  
 Gallinger, H. P., 9  
 Galloo, E., 136  
 Gallop, E. G., 49  
 Galloway, G., 284  
 Galloway, Sir J., 170  
 Galloway, L., 237  
 Galpin, S. L., 116  
 Galt, Miss C. M., 297  
 Galway, Sir H. L., 5  
 Gambhir, J. S., 27  
 Gamble, C. B., 16  
 Gamble, C. W., 209  
 Gamble, F. W., 28  
 Gamgee, L. P., 29  
 Gandier, S. H., 111  
 Gangali, S. C., 132  
 Gangooley, P., 43  
 Ganguli, P. C., 294  
 Ganguly, A. N., 133  
 Ganong, W. F., 247  
 Garay, P. A., 222  
 Garabedian, D., 256  
 Garcia, F., 303  
 Garfield, H. A., 341  
 Garlipy, C. N., 277  
 Gard, W. J., 12  
 Gardham, H. C., 92  
 Gardiner, E. G., 152  
 155  
 Gardiner, F. 93.  
 Gardiner, H. N., 247  
 Gardiner, Miss J., 111  
 Gardiner, J. S., 47  
 Gardner, A., 38  
 Gardner, C. S., 199  
 Gardner, D. C., 299  
 Gardner, E. A., 148,  
 149, 150, 155  
 Gardner, E. G., 206  
 Gardner, E. H., 201  
 Gardner, F. D., 302  
 Gardner, H. B., 275  
 Gardner, Miss H. M.  
 218  
 Gardner, J. A., 152, 175  
 Gardner, Miss L., 136  
 Gardner, Miss M., 136  
 Gardner, N. L., 23  
 Gardner, P., 256, 258  
 Gardner, W. S., 16  
 Garneau, A., 278  
 Garneau, Sir G., 278  
 Garneau, P. B., 277,  
 278  
 Garner, J. W., 317  
 Garnett, J. C. M., 208  
 Garrett, A. E., 163  
 Garrett, F. C., 89  
 Garrett, H. L. O., 131  
 Garrett, J., 294  
 Garrett, S. S., 125  
 Garrod, A. E., 166  
 Garrod, E. W., 257  
 Garrow, J. M. E., 340  
 Garstang, J., 144  
 Garstang, T. W. H., 188  
 Garstang, W., 140  
 Gartrell, H. W., 4  
 Garn, D. A. R., 72  
 Garver, F. B., 299  
 Garver, J. D., 138  
 Garver, M. M., 302  
 Garvie, A. E., 158  
 Garwood, E. J., 150  
 155  
 Gaseler, S., 50  
 Gass, S. B., 143  
 Gasson, T. I., 323, 324  
 Gastonguay, J. N., 278  
 Gates, O. H., 57  
 Gates, R. R., 151, 157  
 Gatt, J. L., 321  
 Gattet, B., 221, 222  
 Gattet, B. M., 277  
 Gauge, A. H., 180  
 Gankel, T. L., 286  
 Gaul, E. G., 207  
 Gauss, C., 272  
 Gauthew, R., 220, 278  
 Gauthier, His Lordship  
 Mgr. G., 220  
 Gauthier, O., 222  
 Gaw, A., 196  
 Gaw, A., 196  
 Gawler, J. S., 213  
 Gay, F. P., 23  
 Gay, Miss L. M., 201  
 Gayer, A. E., 163  
 Gayley, C. M., 23  
 Geddes, R. T. Hon, Sir  
 A. C., 218  
 Geddes, J., 33, 35  
 Geddes, P., 284  
 Gee, W. W. H., 209  
 Geer, , 272  
 Geer, C. M., 117  
 Geevergese, P. T., 291  
 Geblike, C. E., 68  
 Gehrke, P., 163  
 Gebrens, K. W., 249  
 Geib, W. J., 203  
 Geike, Sir A., 186  
 Gelling, K. G., 259  
 Geiser, K. F., 249  
 Geissler, L. R., 343  
 Geldait, W. M., 255, 258  
 Geltech, W., 201  
 Gemmell, G. H., 95  
 Gemmell, J. T., 284  
 Gendreau, J., 221  
 Génereux, D., 221  
 Genner, E. E., 260  
 Geoffrion, A., 219  
 George, A. W., 211  
 George, R. H., 223  
 George, S. G., 125  
 Georgeson, C. C., 296  
 Gephart, W. F., 288  
 Gepp, A., 178  
 Geraghty, J. T., 15  
 Gerald, H. F., 251  
 Gerald, H. F., 250  
 Gerding, T. G., 329  
 Gerhard, W. J., 67  
 Gerike, W. F., 24  
 Gerig, J. L., 232  
 Germann, A. F. O., 69  
 Gerould, G. H., 272  
 Gerould, J. H., 115  
 Gerould, J. T., 216  
 Gerrand, Miss E., 37  
 Gerrans, H. T., 260  
 Gerrard, H., 207  
 Gershenfeld, L., 203  
 Gerstenberg, G. W., 237  
 Gerstenberger, H. J., 68  
 Gervis, H., 167  
 Gesell, A. L., 229  
 Gettell, R. G., 10  
 Gettler, A. O., 237  
 Geyl, P., 154, 155, 160  
 Ghani, M. A., 44, 133  
 Ghosal, D. N., 292  
 Ghose, A. K., 292  
 Ghose, L., 131  
 Ghosh, J. C., 43  
 Ghosh, K. M., 132  
 Ghosh, L. K., 263  
 Ghosh, R. S., 20  
 Giard, C. F., 246  
 Gibb, A. W., 2  
 Gibb, D., 92  
 Gibbon, H. H., 257  
 Gibbons, J. Cardinal,  
 327  
 Gibbons, H. W., 301  
 Gibbons, Miss M. F.,  
 246  
 Gibbons, W. W., 292  
 Gibbs, C., 170  
 Gibbs, L. R., 268, 269  
 Gibbs, R. C., 123, 124  
 Gibson, A., 112  
 Gibson, A. G., 256  
 Gibson, A. H., 284  
 Gibson, A. J., 37  
 Gibson, C. L., 123  
 Gibson, E. H., 331  
 Gibson, G. A., 105  
 Gibson, G. E., 25  
 Gibson, J., 19  
 Gibson, J. P., 177  
 Gibson, W., 182  
 Gibson, W. R. B., 212  
 Giehrner, J. E., 16  
 Giddings, F. H., 232  
 Gidley, J. W., 331  
 Gidvani, A. T., 81  
 Gie, S. F. N., 304  
 Gies, W. J., 233, 244  
 Giese, W. F., 200  
 Gifford, E. W., 23  
 Gifford, H., 142, 251  
 Gifford, R. W., 235  
 Gignac, J., 277  
 Gilbert, C. G., 331  
 Gilbert, C. H., 300  
 Gilbert, E. M., 201  
 Gilbert, F. B., 6  
 Gilbert, J. A., 99  
 Gilbert, J. H., 99  
 Gilbert, N. E., 115  
 Gilbert, O. B., 115  
 Gilchrist, D. A., 89  
 Gilchrist, J. D. F., 58  
 Gilchrist, L., 309  
 Gilchrist, T. C., 15, 16  
 Gildersleeve, Miss V. C.,  
 232  
 Giles, H. A., 48, 51  
 Gile, J. M., 115  
 Giles, L., 177  
 Giles, P., 46, 48, 51  
 Gilkey, R., 124  
 Gill, A., 248  
 Gill, A. C., 122  
 Gill, C., 22, 29  
 Gill, C. W., 12  
 Gill, De L., 332  
 Gillen, C. F., 201  
 Gillespie, C. M., 139,  
 140  
 Gillespie, D. C., 123  
 Gillespie, P., 310  
 Gillett, A. L., 117  
 Gillett, C. R., 239  
 Gillett, H. W., 234  
 Gillette, J. M., 110  
 Gilliat, W., 172  
 Gillies, A., 34  
 Gillies, C. D., 37  
 Gillies, G. A., 322  
 Gilliland, C. V., 196  
 Gillin, J. L., 200  
 Gillis, A. C., 16  
 Gillispie, H. F., 250, 251  
 Gillispie, W., 274  
 Gilman, Miss F., 247  
 Gilman, P. K., 301  
 Gilman, S. W., 200  
 Gilmer, A. H., 211  
 Gilmore, C. W., 331  
 Gilmore, D. P., 121  
 Gilmore, E. A., 203  
 Gilmore, J. L., 142  
 Gilmore, J. W., 24  
 Gilmore, R. J., 74  
 Gilmour, J. L., 313  
 Gilmour, W. H., 145  
 Gilpin, J. E., 14  
 Gilray, T., 87  
 Gilroy, J., 2  
 Gimeno, P., 245  
 Gingham, C. T., 39  
 Gingham, Miss R.,  
 282  
 Ginzberg, I., 239  
 Girard, F. R., 301  
 Giroux, A., 222  
 Girvan, R., 105  
 Gittings, Miss I. E., 217  
 Giuseppe, M. S., 183  
 Givler, D. C., 211  
 Gladden, T. L., 11  
 Gladstone, R. J., 157  
 Gladwin, F. E., 104  
 Glaisher, J. W. L., 52  
 Glaister, J., 105  
 Glanely, The Rt. Hon.  
 Lord, 59  
 Glaser, C., 286  
 Glaser, O. C., 10  
 Glaser, L., 270  
 Glaser, Miss L. G., 288  
 Glasgow, H., 104  
 Glasgow, M., 225  
 Glassington, 172  
 Glassco, A. P. S., 218  
 Glasscock, S. S., 137  
 Glatfeld, J. W. E., 64  
 Glazebrook, Sir R. T.,  
 150  
 Gleason, A., 248  
 Gleason, H. A., 244  
 Glaisher, J. W., 186  
 Glenn, G., 235  
 Glenn, L. C., 224  
 Gloag, W. M., 106  
 Glose, J. C., 324  
 Gloster, Major T. H.,  
 33  
 Glover, T. R., 46, 48,  
 50, 51, 257  
 Gloyer, W. O., 104  
 Glynn, E. E., 145  
 Glynn, T. R., 145  
 Goadby, R. W., 171  
 Goddard, A. E., 28  
 Goddard, A. L., 202  
 Goddard, E. J., 304  
 Goddard, P. E., 240  
 Goddard, R. H., 343  
 Godding, T. H., 142  
 Godfrey, F. La T., 83  
 Godlee, A., 28  
 Godley, A. D., 255  
 Goebel, J., 317  
 Goerner, F. A., 249  
 Goetsch, C., 63  
 Goetz, Miss A. L., 136  
 Goetz, J. S., 142, 251  
 Goetz, P. B., 41, 42  
 Goggio, C., 281



# INDEX TO NAMES

- Gold, Lt.-Col. E., 180  
 Goldberg, S. A., 124  
 Golder, F. A., 276  
 Goldie, Rt. Hon. Sir  
     G. T., 187  
 Goldie, W., 310  
 Goldsack, I. R., 208  
 Goldsborough, F. C., 42  
 Goldsmith, G., 138  
 Goldsmith, J. S., 332  
 Goldthwait, J. E., 247  
 Goldthwait, J. W., 115,  
     116  
 Golligher, W. A., 83  
 Gollanez, H., 155  
 Gollancz, Sir I., 100,  
     150, 156,  
 Gollmar, Miss E., 142  
 Gonner, E. C. K., 144  
 Gonneman, H. F., 318  
 Gonsalves, T., 210  
 Good, H. G., 114  
 Goodale, A. S., 10  
 Goodale, S. L., 268, 269  
 Goodall, A., 93  
 Goodall, J. S., 173  
 Goodchild, G. F., 149  
 Goode, Miss B., 248  
 Goode, J. P., 63  
 Goodell, T. D., 228  
 Goodenough, G. A., 318  
 Goodhart, G. W., 168,  
     171  
 Goodhart, S. P., 235  
 Goodhue, E. W., 114  
 Gooding, C. L., 303  
 Goodman, C., 237  
 Goodman, J., 140  
 Goodnight, S. H., 201  
 Goodnow, F. J., 14  
 Goodrich, Miss A. W.,  
     233  
 Goodrich, E. S., 185,  
     257  
 Goodrich, F., 341  
 Goodrich, H. B., 216  
 Goodrich, H. F., 121  
 Goodrich, N. L., 16  
 Goodridge, M., 123  
 Goodsell, W., 233  
 Goodspeed, A. W., 266  
 Goodspeed, E. J., 64  
 Goodspeed, T. H., 23  
 Goodwillie, J., 2  
 Goodwin, B. G., 29  
 Goodwin, C. J., 26  
 Goodwin, J. H. H., 50  
 Goodwin, W., 304, 305  
 Goorich, R. K., 300  
 Gordon, A. R., 219  
 Gordon, C. McC., 90  
 Gordon, E. B., 200  
 Gordon, E. J., 77  
 Gordon, G. S., 140  
 Gordon, J. A., 37  
 Gordon, M. H., 166  
 Gordon, P., 107  
 Gordon, R. K., 97  
 Gordon, R. W., 23  
 Gordon, S. T., 85  
 Gordon, T. E., 83  
 Gordon, W., 92  
 Gordon, W. T., 152, 157  
 Gore, S. N., 33  
 Gorham, F. P., 275  
 Gorman, C. H., 280  
 Gorsham, W. R., 302  
 Gorter, J. P., 17  
 Goss, Mrs. A. D., 31  
 Gossard, H. C., 245  
 Gosselin, A., 278  
 Gottheil, R. J. H., 232  
 Gondie, W. G., 105  
 Gondy, A. O., 48  
 Gondy, H., 255, 258  
 Gould, Hon. A. M., 324  
 Gould, C. N., 64  
 Gould, H. N., 269  
 Goulding, E., 179  
 Gourlay, C., 107  
 Govier, C. P., 303  
 Govindan, R. B. V. V.,  
     204  
 Gow, A., 164  
 Gow, A. E., 166  
 Gow, G. C., 271  
 Gow, H., 262  
 Gowen, J. W., 253  
 Gowin, E. B., 237  
 Gowland, W. P., 87  
 Graber, L. F., 203  
 Grabo, C. H., 64  
 Grace, J. H., 47, 48  
 Gracey, D. A., 180  
 Graff, P. W., 217  
 Gragg, Miss F. A., 247  
 Graham, A., 196  
 Graham, C. I., 174  
 Graham, C. J., 178  
 Graham, E. A., 288  
 Graham, F. P., 61  
 Graham, G. W., 127  
 Graham, H. B., 301, 302  
 Graham, J. M., 93  
 Graham, R., 319  
 Graham, R. P. D., 219  
 Graham, T. H., 94  
 Graham, W. C., 77  
 Graham, W. J., 69  
 Graham, W. R., 111  
 Graham-Brown, J. J.,  
     94  
 Graham-Smith, G. S.,  
     47  
 Grahamstown, Rt. Rev.  
     the Bishop of, 109  
 Grambrill, J. M., 233  
 Gramlich, H. J., 142  
 Grandbois, J. E., 277  
 Grandgent, C. H., 53, 56  
 Grange, E. A. A., 312  
 Grange, L. I., 341  
 Granger, A. S., 197  
 Granger, F. S., 248  
 Granger, W., 240  
 Gransted, L. W., 207  
 Granstein, W. C., 54  
 Grant, A. J., 140  
 Grant, B. C., 143  
 Grant, E. J., 232  
 Grant, J., 209  
 Grant, K., 4  
 Grant, Sir L. J., 91  
 Grant, L. S., 108  
 Grant, Hon. T., 118  
 Grant, Miss T. E., 68  
 Grant, W., 2  
 Grant, W. L., 254  
 Graton, L. C., 54, 55  
 Grattan, J. E., 324  
 Gravatt, T. E., 302  
 Grave, B. H., 102  
 Gravely, F. H., 45  
 Graves, H. S., 333  
 Graves, Miss L., 125  
 Graves, W. L., 75  
 Graves, W. P., 54  
 Graves, W. W., 286  
 Gray, A., 46, 50, 105,  
     125  
 Gray, A. A., 105  
 Gray, A. K., 37  
 Gray, A. M. H., 171  
 Gray, C. H., 210  
 Gray, F. W., 2  
 Gray, Miss G., 135  
 Gray, G. B., 255  
 Gray, G. M., 137  
 Gray, G. P., 25  
 Gray, H. D., 300  
 Gray, H. L., 41  
 Gray, H. T., 174  
 Gray, J. A., 219  
 Gray, J. C., 270  
 Gray, J. G., 105  
 Gray, J. H., 49, 50  
 Gray, R. C., 264  
 Gray, T., 107, 182  
 Gray, T. T., 82  
 Gray, W. C., 107  
 Gray, W. D., 247  
 Gray, W. M., 107  
 Gray, W. N., 107  
 Gray, W. R., 115  
 Gray, W. S., 65, 344  
 Greaves, W. H., 311  
 Green, E. A., 341  
 Green, E. E., 194  
 Green, F., 319  
 Green, E. M., 90  
 Green, F. W., 51  
 Green, G., 105  
 Green, G. R., 302  
 Green, H. E., 51  
 Green, H. H., 252  
 Green, J., 21  
 Green, J. A., 292, 293  
 Green, J. E. S., 49  
 Green, J. S., 148  
 Green, J. W., 136, 138  
 Green, M. H., 269  
 Green, R. L., 300  
 Green, S. W., 148  
 Green, W. H., 213  
 Greene, A. M., 315  
 Greene, Miss C., 297  
 Greene, Miss D., 135  
 Greene, Miss E., 142  
 Greene, E. B., 317, 336  
 Greene, E. R., 115  
 Greene, H. E., 14  
 Greene, J., 114  
 Greene, J. F., 275  
 Greene, L. S., 201  
 Greene, W. B., 274  
 Greener, Lt.-Col. H.,  
     109  
 Greenish, H. G., 151  
 Greenlaw, E., 61, 299  
 Greenman, J. M., 288,  
     289  
 Greenman, M. J., 264  
 Greenough, C. N., 53  
 Greenough, J., 242  
 Greenough, R. B., 54  
 Greenup, W., 164  
 Greenway, J. C., 229  
 Greenwood, A., 211  
 Greenwood, E. C., 168  
 Greenwood, F. R., 29  
 Greenwood, L. H. G.,  
     51  
 Greenwood, Major, 152  
 Greenwood, M., 188  
 Greenwood, O., 149  
 Greenshields, Hon. Mr.  
     Justice R. A. E., 219  
 Greever, G. G., 31  
 Gregg, J. W., 24  
 Gregory, C. A., 99  
 Gregory, C. T., 124  
 Gregory, H. E., 119,  
     228  
 Gregory, J. H., 15  
 Gregory, J. W., 105  
 Gregory, Miss L. H.,  
     234  
 Gregory, M. S., 237  
 Gregory, R. H., 212  
 Gregory, W. G., 41  
 Gregory, W. K., 234,  
     240  
 Greig, A., 186  
 Greig, A. K., 291  
 Greig, D. M., 284  
 Greig, J. R., 95  
 Greig, T. H., 47  
 Greissinger, Miss H.,  
     138  
 Grenfell, B. P., 256,  
     257  
 Greves, G. L., 25  
 Grey, G., 262  
 Grice, Sir J., 212  
 Grider, R. L., 138  
 Grier, Miss, 52  
 Grier, J., 207  
 Grierson, H. J. C., 71  
 Gries, J. M., 55  
 Griffin, Miss, 196  
 Griffin, A. P. C., 324  
 Griffin, D. W., 246  
 Griffin, F. L., 24, 124  
 Griffin, Very Rev. J. J.,  
     328  
 Griffin, L. E., 22, 268,  
     269  
 Griffin, N. E., 272  
 Griffith, C. L., 323  
 Griffith, E. C., 275  
 Griffith, F. L., 256  
 Griffith, Miss H., 297  
 Griffith, H. E., 102  
 Griffith, I. O., 257, 262  
 Griffith, I. S., 318  
 Griffith, J. J., 3  
 Griffith, J. L., 318  
 Griffith, T. W., 140  
 Griffith, U. J., 245  
 Griffith, W. A., 138  
 Griffith, W. G., 103  
 Griffith, W. E., 45  
 Griffith, W. H., 157  
 Griffith, W. S. A., 166  
 Griffiths, A., 159  
 Griggs, L., 115  
 Griggs, R. F., 76  
 Grillo, E., 92, 105  
 Grima, C. C., 321  
 Grimes, M. F., 302  
 Grimm, J. C. M., 80  
 Grimm, J. H., 287  
 Grimsdale, H. B., 168  
 Grindley, H. S., 319  
 Grindon, J., 286  
 Grinnell, J., 23, 26  
 Grist, D. H., 128  
 Groff, L. A., 197  
 Grojhan, G., 322  
 Grondahl, I. C., 156  
 Grondin, S., 278  
 Gronow, H. E., 64  
 Groom, P., 165  
 Grossman, J. P., 12  
 Grosvenor, F. B., 76  
 Groulx, L., 220, 222  
 Groulx, L., 278  
 Grove, J. W., 215  
 Grove, O., 39  
 Grove, R. E., 11  
 Grove, T. C., 179  
 Grover, A. L., 197, 253  
 Grover, F. O., 248  
 Grover, N. C., 329

- Grover, S. R., 133  
 Groves, E. W. H., 39  
 Grubb, G. A., 141  
 Gruber, H. D., 27  
 Gruenbaum, G., 14  
 Gruender, H., 286  
 Gruener, G., 228  
 Gruener, H., 69  
 Gruffydd, W. J., 60  
 Grumman, P. H., 143  
 Grump, C. G., 183  
 Grunbaum, O., 169  
 Grundy, G. B., 259  
 Gualtieri, E., 38  
 Gudernatsch, J. F., 123  
 Guenther, A., 251  
 Guenther, A. E., 142  
 Guenther, A. M., 324  
 Guérard, J., 278  
 Gucret, E. N., 67  
 Guerlac, O. G., 123  
 Guess, G. A., 310  
 Guest, J. J., 152, 155  
 Guffey, D. C., 137  
 Guggenheim, D., 239  
 Guha, J. C., 20  
 Guild, F. T., 275  
 Guild, G. R., 14  
 Guild, J. B., 92  
 Guilday, P., 327  
 Guilfoyle, W. R., 215  
 Guise, L. D., 205  
 Gulick, C. B., 53  
 Gullan, A. G., 145  
 Gulland, G. L., 92  
 Gullum, F. B., 12  
 Gundry, P. G., 272  
 Gunn, J. A., 58, 255  
 Gannell, L. C., 184, 322  
 Gunsaulus, F. W., 64  
 Gunsaulus, Helen C., 66  
 Gunson, J. B., 4  
 Gunther, Miss E. H., 233  
 Gunther, R. W. T., 259  
 Gupta, B. C., 294  
 Gupta, G. L., 299  
 Gupta, H. P. sen, 292  
 Gusler, G., 319  
 Gustafson, A. F., 319  
 Guth, W. W., 13  
 Guthrie, C. C., 269  
 Guthrie, C. G., 15  
 Guthrie, E. S., 124  
 Guthrie, W. D., 235  
 Gutsell H. S., 125  
 Gwatken, R., 312  
 Gwer, C., 287  
 Gwynn, E. J., 83, 87  
 Gwynn, R. M., 83, 84  
 Gwyne-Vaughan, Dame H., 159  
 Haanel, E., 194  
 Haas, A. R. C., 25  
 Haas, P., 156  
 Hack, R. K., 54  
 Hackedorn, H., 276  
 Hacker, M., 338  
 Hackett, J. R., 79  
 Hackforth, R., 51  
 Hackleman, J. C., 319  
 Hadden, A., 63  
 Haddon, A. C., 48  
 Hadfield, Sir R., 194  
 Hadi, A., 126  
 Hadi, M. M., 200  
 Hadley, A. T., 227  
 Hadley, C. H., 302  
 Hadley, F. B., 207  
 Hadley, W. J., 169  
 Hadley, W. S., 46, 49  
 Hadsell, S. R., 245  
 Haertel, M. H., 200, 201  
 Haft, D. M., 279  
 Hagan, W. A., 124  
 Hagen, E. R., 326  
 Hagen, R. M., 25  
 Hagen, W. L., 226  
 Hagenow, C. F., 287  
 Hagerty, J. E., 75  
 Haggard, Mrs. M. W., 224  
 Haggard, W. D., 225  
 Hahn, Miss D. A., 298  
 Haig, R. M., 233  
 Haight, 271  
 Haines, A. H., 344  
 Haines, W. S., 64  
 Hake, H. G., 287  
 Hake, H. M., 178  
 Hake, H. W., 172  
 Haldane, J. S., 253  
 Haldane, Viscount, 38  
 Hale, E. D., 74  
 Hale, G. E., 63, 262, 266  
 Hale, W. G., 319  
 Hales, G. T., 177  
 Haley, D. E., 303  
 Haley, Y. W., 225  
 Hall, A., 325  
 Hall, A. B., 201  
 Hall, A. J., 88, 293, 294  
 Hall, A. L., 58  
 Hall, C. L., 326  
 Hall, C. R., 273  
 Hall, E. B., 156  
 Hall, E. E., 23  
 Hall, E. H., 53, 56  
 Hall, E. P., 137  
 Hall, F., 225  
 Hall, F. A., 287  
 Hall, F. H., 103, 255, 257  
 Hall, F. J., 235, 238, 302  
 Hall, F. W., 260  
 Hall, G. S., 342, 343  
 Hall, H., 152, 183, 193  
 Hall, H. B., 216  
 Hall, H. J., 299  
 Hall, H. R. H., 178  
 Hall, I. C., 23  
 Hall, I. W., 39  
 Hall, J. A., 275  
 Hall, J. P., 62, 64  
 Hall, R. W., 27  
 Hall, T. R., 287  
 Hall, W. E., 329  
 Hall, W. H., 252  
 Hall, W. P., 273  
 Hall, W. S., 90  
 Haller, W., 233  
 Hallett, F. G., 167, 176  
 Halliburton, W. D., 151, 157  
 Halliday, F. W., 206  
 Halliday, W. R., 144  
 Hallimond, A. F., 183  
 Hallows, K. A. K., 45  
 Hallsworth, H. M., 89  
 Haltenhoff, A. G., 157  
 Haltem, J. K. E., 53  
 Halpin, J. F., 180  
 Halsbury, The Rt. Hon. the Earl of, 161  
 Halstead, A. E., 319  
 Halsted, W. S., 14  
 Halsey, F. W., 34  
 Halsey, W. D., 325  
 Ham, C. W., 125  
 Ham, W., 4  
 Ham, W. R., 302  
 Hamann, C. A., 68  
 Hambleton, B. F., 225  
 Hamburger, L. P., 15  
 Hamel, A. C., 278  
 Hamid, A., 13, 133  
 Hamilton, A., 54  
 Hamilton, A. B., 134  
 Hamlin, A. D. F., 236  
 Hamilton, D. W., 276  
 Hamilton, E. A., 77  
 Hamilton, F. R., 139  
 Hamilton, G. E., 324  
 Hamilton, G. L., 123  
 Hamilton, J. A. G., 4  
 Hamilton, J. G. de R., 61  
 Hamilton, J. J., 324  
 Hamilton, R. A., 323  
 Hamilton, Miss S. H., 247  
 Hamilton, T., 21  
 Hamilton, T. E., 76  
 Hamilton, W., 107  
 Hamilton, W. H., 9  
 Hamilton, W. O., 136  
 Hamill, E. A., 66  
 Hamill, P., 166  
 Hamman, L. V., 15  
 Hammon, P. V., 197  
 Hammond, M. B., 75  
 Hammond, R. L., 253  
 Hammond, W. A., 122  
 Hammond, W. C., 297  
 Hampson, Sir G. F., 173  
 Handley, W. S., 173  
 Handover, S. J., 259  
 Handschin, W. F., 319  
 Handy, S. S., 11  
 Haney, J. W., 141  
 Hanford, J. H., 61  
 Hankins, F. H., 343  
 Hanna, B. C., 197  
 Hanna, Miss D., 248  
 Hanna, U. S., 30  
 Hanna, W., 148  
 Hannah, L. C., 249  
 Hannay, R. K., 91  
 Hanscom, E. D., 247  
 Hanson, F. B., 287  
 Hanson, H. A., 200  
 Hanson, H. H., 289  
 Hanson, J. C., 65  
 Hanson, R., 157  
 Hanton, W. A., 209  
 Hanus, P. H., 53  
 Hanzlik, P. J., 68, 69  
 Haque, M., 263  
 Harcourt, R., 111  
 Hardaway, F. P., 287  
 Harden, A., 150  
 Harden, J. M., 161  
 Hardie, Capt. M., 179  
 Harding, A. A., 318, 319  
 Harding, H. A., 319  
 Harding, S. B., 30  
 Harding, S. T., 25  
 Hardinge-Tyler, G. D., 191  
 Hardman, G., 281  
 Hardy, A. K., 115  
 Hardy, E. A., 291  
 Hardy, E. G., 260  
 Hardy, G. H., 46, 47, 53, 192, 256  
 Hardy, J. G., 341  
 Hardy, W. B., 47, 49, 182, 184  
 Harger, J. R., 320  
 Hargrove, R. M., 246  
 Haride, R. P., 92  
 Haring, A., 236  
 Haring, C. H., 228  
 Haring, C. M., 24  
 Harivel, Miss E., 96  
 Harker, A., 47  
 Harker, J. A., 183  
 Harker, O. A., 319  
 Harkins, W. D., 63  
 Harkness, A. G., 275  
 Harkness, J., 218  
 Harlan, Hon. H. D., 16, 17  
 Harley, A. H., 44  
 Harley, A. W. M., 342  
 Harley, J., 167  
 Harlow, Miss S. H., 244  
 Harner, F. E., 206  
 Harner, P. M., 203  
 Harner, Sir S. F., 178, 192  
 Harner, W. D., 166  
 Harmon, A. M., 228  
 Harmon, G. E., 68  
 Harns, B. H., 250  
 Harper, Miss A. C., 297  
 Harper, G. McL., 272  
 Harper, H. R., 34  
 Harper, J., 105  
 Harper, J. P., 286  
 Harper, M. W., 124  
 Harper, R. A., 234  
 Harper, S. N., 64  
 Harrer, G. A., 61  
 Harriman, C. A., 236  
 Harriman, W. W., 253  
 Harring, H. K., 331  
 Harrington, E. C., 10  
 Harrington, E. H., 343  
 Harrington, H. F., 318  
 Harrington, J. P., 332  
 Harrington, K. P., 216  
 Harrington, L. C., 110  
 Harrington, T. H., 233  
 Harris, A. L., 325  
 Harris, A. M., 225  
 Harris, A. W., 225  
 Harris, C., 68  
 Harris, C. L., 303  
 Harris, C. O., 301  
 Harris, D. F., 112, 113  
 Harris, D. L., 50, 51  
 Harris, E. F., 5  
 Harris, G. D., 122  
 Harris, G. E., 341  
 Harris, G. M., 83  
 Harris, H., 29  
 Harris, H. J., 334  
 Harris, I. B., 77  
 Harris, J. A., 72  
 Harris, J. W., 289  
 Harris, Miss J. W., 142  
 Harris, L. H., 268  
 Harris, R. A., 197  
 Harris, T. T., 250  
 Harris, W., 173  
 Harris, W. B., 274  
 Harris, W. H., 134  
 Harrison, A. C., 16  
 Harrison, E., 50  
 Harrison, E. P., 296  
 Harrison, Florence, 276  
 Harrison, P. C., 220  
 Harrison, H. G., 191  
 Harrison, H. S., 180  
 Harrison, Miss J. E., 52  
 Harrison, R. G., 229



# INDEX TO NAMES

- Harrison, T. W., 180  
Harrison, W. J., 49  
Harrold, J. B., 159  
Harrop, C. B., 77  
Harroun, H., 249  
Harrow, R. L., 96  
Harrower, J., 2  
Harsha, W. Mel., 319  
Harslberger, J. W., 73  
Hart, A. B., 53  
Hart, B., 94, 171  
Hart, D. B., 94  
Hart, E., 90  
Hart, E. B., 202  
Hart, G. H., 24  
Hart, J. E., 224  
Hart, J. N., 252, 253  
Hart, T. S., 235  
Hart, W. M., 23  
Hart, W. W., 201  
Harte, W. J., 100  
Harter, L. S., 337  
Hartford, J. S., 246  
Hartley, H. B., 257  
Hartman, F. A., 309  
Hartman, G. F. A., 42  
Hartman, L. W., 281  
Hartog, M., 78  
Hartog, P. J., 149  
Hartridge, H., 47  
Hartshorne, H., 293  
Hartshorn, W. E., 229  
Hartung, E. J., 213  
Hartwell, J. A., 123  
Hartzell, F. Z., 104  
Harvey, B. C. H., 64  
Harvey, E. L., 102  
Harvey, E. N., 274  
Harvey, Hon. H., 96  
Harvey, J. W., 29  
Harvey, R. S., 324  
Harvey, S. L., 58  
Harvey-Gibson, R. J., 145  
Harwood, Mrs. L. F., 175  
Harwood, W. A., 296  
Hasain, A., 264  
Hasaman, C., 287  
Hasaman, W. P., 245  
Hasek, C. W., 302  
Haselfoot, C. E., 260, 261  
Haskell, E. E., 125  
Haskell, M. W., 23  
Haskins, C. A., 138  
Haskins, C. H., 53  
Haskins, C. N., 115  
Haskins, F. S., 34, 211  
Haskins, H. D., 99  
Haslam, W. F., 29  
Haslip, G. E., 188  
Hassall, A., 259  
Hassall, J. C., 327  
Hasse, H. R., 39  
Hasseltine, H. E., 336  
Haseloch, A. C., 238  
Hastings, Mrs. A. M., 249  
Hastings, C. H., 334  
Hastings, E. G., 202  
Hastings, G. C., 249  
Hastings, L. S., 115  
Hastings, S., 173  
Hastings, W. C., 141  
Hastings, W. T., 275  
Hatai, S., 264  
Hatch, D. A., 90  
Hatch, K. L., 202  
Hatch, Miss L., 248  
Hatch, W. H. P., 55, 56  
Hatcher, R. A., 123  
Hatchett, J. A., 246  
Hatfield, H. R., 24  
Hatfield, S. A., 77  
Hathaway, A. S., 308  
Hathaway, Miss M. C., 76  
Hathway, A. S., 279  
Hattersley, A. F., 269  
Hathe, W. H., 113  
Hatten, A. R., 68, 69  
Hattton, J. L. S., 148, 163  
Hatten, R. G., 89, 344  
Haubold, H. A., 237  
Haughton, S. H., 58  
Haultain, F. W. G., 290  
Haultain, H. E. T., 310  
Haupst, P., 14  
Havecock, T. H., 89  
Havemeyer, L., 229  
Havenhill, L. D., 137  
Haverfield, F. J., 259  
Havner, H. H., 302  
Hawarth, W. O., 207  
Hawes, A. F., 338  
Hawken, R. W. H., 37  
Hawkes, H. E., 234  
Hawkins, H. P., 167  
Hawkins, R. H., 269  
Hawkins, R. L., 54  
Hawley, R. C., 229  
Haworth, E., 137  
Haworth, P., 38  
Haworth, P. L., 30  
Haworth, W. N., 284  
Hawtin, W. G., 162  
Haxo, H. E., 110  
Hay, J., 145  
Hay, M., 2  
Hay, The Very Rev. R. S., 118  
Hay, S. M., 310  
Hay, W. G., 87  
Hayden, C. E., 124  
Hayden, H. H., 45  
Hayden, J. G., 137  
Hayden, Miss M. T., 85  
Haydn, H. M., 69  
Hayens, K., 284  
Hayes, E. C., 317  
Hayes, E. H., 258  
Hayes, Miss E. M., 211  
Hayes, F. M., 24  
Hayes, G., 305  
Hayes, H. G., 228  
Hayes, R. A., 49  
Hayes, S. P., 297  
Hayhurst, E. R., 77  
Haynes, F. E., 120, 298  
Haynes, I. S., 123  
Haynes, J., 221  
Haynes, R. S., 242  
Haynes, W. P., 137  
Hays, Miss A. N., 301  
Hays, G. L., 269  
Hays, I. Mimis, 266  
Hays, W. C., 25  
Hays, W. E., 120  
Hayward, W. T., 4  
Hayward, H., 226  
Haywood, J. K., 334  
Haywood, W., 29  
Hazard, Miss B. E., 125  
Hazari, G. P., 263  
Hazel, A. E. W., 255, 258, 260  
Hazeltine, H. D., 47  
Hazen, C. D., 232  
Hazen, T. E., 24  
Hazlett, Miss O. C., 298  
Heacox, A. E., 249  
Head, F. W., 51  
Headicar, B. M., 155, 162  
Headlam, A. C., 255, 259  
Headlam, C., 183  
Headlam, H. E., 183  
Headridge, D., 207  
Headridge, J. P., 207  
Heagney, F. W., 251  
Heald, F. D., 276  
Healy, Very Rev. P., 327  
Healy, E. A., 196, 198  
Heard, C. H., 142  
Heard, J. D., 269  
Heard, Brevet-Col. R., 131  
Hearnshaw, F. J. C., 151, 156  
Heap, H., 207  
Heath, A. E., 208  
Heath, H., 300  
Heath, Sir H. F., 182  
Heather, H. J. S., 126  
Heatley, C. P., 92  
Heaton, B., 294  
Heaton, G., 29  
Heaton, H., 4  
Heaton, H. C., 236  
Heaton, T. B., 167  
Heaton, W. H., 248  
Heatwole, T. O., 16, 17  
Heawood, E., 187  
Haewood, P. J., 89  
Hebard, Miss G. R., 134, 135  
Hebb, T. C., 322  
Hebble, C. H., 77  
Heberden, C. B., 259  
Hébert, E., 278  
Hébert, P., 278  
Hébert, R., 221  
Hecht, S., 251  
Heck, A. F., 277  
Heckel, A. K., 90  
Heckman, W., 62  
Hector, J. M., 272  
Hedgeland, A. J., 179  
Hedrick, A. P., 104  
Heermance, R., 273  
Hegner, R. W., 15  
Hehre, F. W., 235  
Heidel, W. A., 216  
Heil, H. G., 76  
Heilbron, J. M., 107  
Heileman, W. H., 25  
Heilman, W. C., 54  
Heine, Miss A. A., 247  
Heimicke, A. J., 125  
Heintz, E. L., 319  
Hekking, W. M., 138  
Hektoen, L., 64  
Hele, T. J., 51  
Helleberg, V. E., 136  
Heller, O., 287  
Heller, J. B., 140  
Helmick, B. C., 253  
Helmrich, G. B., 245  
Helms, E. J., 34  
Helweg, J. H., 156  
Hemelt, F. J., 328  
Hemingway, S. B., 228  
Hemmon, J. C., 219  
Hemmeter, J. C., 16  
Hemmy, A. S., 129, 131  
Hemph, G., 199  
Henahan, J. P., 68  
Henderson, A., 67, 248  
Henderson, B. L. K., 163  
Henderson, B. W., 257  
Henderson, C. G., 105  
Henderson, E. A., 198  
Henderson, G. C., 4  
Henderson, H. L., 258  
Henderson, J., 106, 163, 322, 341  
Henderson, W. D., 39  
Henderson, W. E., 75, 242  
Henderson, Y., 229  
Hendrick, J. L., 2  
Hendricks, B. C., 143  
Hendrickson, A. H., 25  
Hendrickson, G. L., 22  
Hendy, G. W., 25  
Henler, W. F., 323  
Henmon, V. A. C., 200  
Hennel, Miss C. B., 31  
Henning, G. N., 325  
Henning, H., 238  
Hennings, A. E., 322  
Henninger, C. H., 269  
Henroteau, F., 254, 270  
Henry, A., 86  
Henry, Miss E. G., 31  
Henry, F. G., 219  
Henry, G. J. G., 61  
Henry, G. M., 73  
Henry, J. K., 322  
Henry, J. M., 83  
Henry, Miss M. F., 125  
Henry, R. M., 22  
Heneer, C. H., 15  
Henshaw, F. F., 329  
Henshaw, S., 56  
Hensman, Miss S. G., 224  
Hepburn, C. McG., 31  
Hepburn, D., 60  
Hepburn, M. L., 170, 175  
Heppner, Amanda H., 141  
Herbert, H., 197  
Herbert, H. H., 245  
Herbert, J. A., 177  
Herbert-Smith, G. F., 178  
Herbst, G., 276  
Hercus, E. O., 213  
Herdener, C. F., 89  
Herdman, W. A., 145, 184, 186  
Herd, L. A., 219  
Herford, Miss C., 208  
Herford, C. H., 206  
Heriot, T. H. P., 107  
Herkless, Sir J., 284  
Herman, R. A., 46, 47  
Hermes, W. B., 24  
Heron, A. M., 45  
Heron-Allen, E., 190  
Héroux, M. A. N., 135  
Heroy, W. B., 339  
Herriek, C. J., 64  
Herriek, F. H., 68, 78  
Herriek, G. W., 122, 124  
Herriek, R., 63  
Herriek, W. W., 235  
Herring, P. T., 284  
Herrington, Sir W. P., 166  
Herron, W. H., 329  
Hersam, E. A., 25  
Hershy, A. S., 30  
Hertig, O. L., 270  
Herty, C. H., 242  
Hertz, A. F., 168  
Hertzler, A. E., 137  
Hervey, Lord F., 260

- Hesler, L. R., 124  
 Hess, A. F., 237  
 Hess, F. L., 331  
 Hess, J. A., 31  
 Hess, J. H., 319  
 Hess, R. H., 201  
 Hetherington, H. J. W., 60  
 Hett, G. S., 171  
 Hett, Miss L. M., 81  
 Heuer, G. S., 15  
 Heuser, F. W. J., 233  
 Heuser, G. F., 125  
 Hewer, Miss E., 175  
 Hewes, Miss A., 297  
 Hewetson, J. T., 29  
 Hewett, E. L., 290  
 Hewlett, A. W., 300  
 Hewlett, G. W., 120  
 Hewlett, Miss M., 98  
 Hewlett, R. T., 150, 157, 176  
 Hewitt, T. B., 341  
 Hewitt, H., 215  
 Hewitt, J. N. B., 332  
 337  
 Hewitt, J. W., 216  
 Hewson, W., 165, 182  
 Hey, W. H., 207  
 Heycock, C. T., 47, 49  
 Hibbard, B. H., 202  
 Hibbard, C. A., 61  
 Hibbard, P. L., 25  
 Hibbe, J. G., 272  
 Hibben, J. G., 272  
 Hibbert, H., 228  
 Hibbert, W. N., 157  
 Hibbett, W. E., 225  
 Hibbins, W. G., 293  
 Hibbs, R. A., 234  
 Hibshman, E. K., 302  
 Hickernell, R., 100  
 Hickerson, T. F., 61  
 Hickling, G., 209  
 Hickling, H. A., 206  
 Hicks, B., 172  
 Hicks, G. D., 155  
 Hickson, J. W. A., 219  
 Hickson, S. J., 206  
 Hid, J. G., 323  
 Hiestand, W. D., 200  
 Higbee, F. G., 121  
 Higgin, A. J., 213  
 Higginbottom, S., 8  
 Higgins, A. P., 49, 151, 162  
 Higgins, Miss E. B., 119  
 Higgins, Miss E. C., 98, 147  
 Higgins, G., 213  
 Higgins, M. E., 326  
 Higgins, W. B., 138  
 Higham, T. F., 259  
 Hight, J., 67  
 Higley, G. O., 80  
 Hildebrand, J. H., 15  
 Hildebrand, L. F., 11  
 Hildt, J. C., 247  
 Hildyard, Miss M. C., 159  
 Hiley, F. C. W., 177  
 Hill, A., 78, 100, 296  
 Hill, A. E., 236, 281  
 Hill, A. J., 228  
 Hill, A. S., 253  
 Hill, A. V., 47  
 Hill, A. W., 195  
 Hill, C. E., 325  
 Hill, C. F., 190  
 Hill, C. G., 16  
 Hill, C. R., 281  
 Hill, E. A., 325  
 Hill, E. B., 54  
 Hill, G. A., 216  
 Hill, G. F., 178  
 Hill, H. P., 300  
 Hill, H. W., 281  
 Hill, J., 31  
 Hill, J. A., 134  
 Hill, J. B., 121, 302  
 Hill, J. E., 275  
 Hill, J. G., 198  
 Hill, M. J. M., 148, 151, 155  
 Hill, J. P., 151, 155  
 Hill, Miss K. L., 117  
 Hill, L., 287  
 Hill, Miss P. S., 233  
 Hill, R. T., 228  
 Hill, T. G., 152, 155  
 Hill, W. B., 271  
 Hill, W. K., 149  
 Hilliard, E., 257  
 Hilliard, H., 175  
 Hillolnson, S., 128  
 Hillier, J. M., 195  
 Hillman, H. L., 115  
 Hills, Brig.-Gen. E. H., 185  
 Hills, E. W., 121  
 Hills, J. L., 42  
 Hills, T. M., 76  
 Hillstrom, Miss E., 201  
 Hilton, H., 151, 160  
 Hinchley, J. W., 165  
 Hind, A. M., 178  
 Hindle, E., 50  
 Hine, J. S., 76  
 Hinkel, I. E., 157  
 Hinks, A. R., 187  
 Hinks, E., 193  
 Hinman, J. J., 121  
 Hinsdale, Miss E. C., 297  
 Hinton, E. W., 65  
 Hippie, A. H., 250  
 Hird, W. B., 107  
 Hirianna, M., 224  
 Hirsch, E. G., 64  
 Hirschfeld, H., 156  
 Hirst, A. S., 178  
 Hirst, Miss B., 13  
 Hirst, Miss G. M., 233  
 Hiscott, T. H., 190  
 Hisduth, A. G., 253  
 Hislop, G., 29  
 Hiss, H., 253  
 Hissdale, A. E., 76  
 Hitchcock, A. S., 331, 337  
 Hitchcock, R. R., 110  
 Hitchcock, W. A., 135  
 Hitzroek, J. M., 123  
 Hixson, A. W., 235  
 Hoag, Miss H. E., 297  
 Hoagland, D. R., 24  
 Hoar, D. B., 342  
 Hoare, E. W., 78  
 Hoare, W. D., 169  
 Hobbie, J. R., 236  
 Hobbs, A. W., 61  
 Hobbs, G. W., 202  
 Hobbs, W. A., 77  
 Hobbhouse, R. H. H., 38  
 Hobbhouse, L. T., 151, 162  
 Hobson, E. W., 47  
 Hobson, R. L., 178  
 Hockett, H. C., 75  
 Hocking, E. E., 54  
 Hocking, F. A., 169  
 Hodder, F. H., 136  
 Hodge, C. R., 3  
 Hodge, C. W., 274  
 Hodge, E. T., 322  
 Hodges, J. C., 80  
 Hodgins, E. L., 196  
 Hodgkin, R. H., 257  
 Hodgkins, H. L., 325  
 Hodgman, A. W., 75  
 Hodgman, C. D., 70  
 Hodgson, B., 39  
 Hodgson, E. A., 254  
 Hodgson, L., 260  
 Hodons, L., 117  
 Hodsdon, J., 93  
 Hodsdon, J. W. B., 93  
 Hoefler, E. G., 134  
 Hoehling, A. A., 324  
 Hoerne, R. F. A., 54  
 Hoerner, W. H., 114  
 van Hoesen, Miss M., 110  
 Hoffman, C. T., 285  
 Hoffman, H. A., 30  
 Hoffman, J. W., 80  
 Hoffman, A. H., 25  
 Hofmeyer, J. H., 126  
 Hogben, L. T., 150  
 Hogan, F. J., 324  
 Hogan, E. V., 113  
 Hogarth, D. G., 258  
 Hogate, E. G., 30, 31  
 Hogg, J. L., 291  
 Hognet, J. P., 123  
 Hohfeld, A. R., 200  
 Horsholt, A. W., 300  
 Holbrook, R. T., 23  
 Holcombe, A. N., 54  
 Holden, C. A., 115  
 Holden, E., 305  
 Holden, H. S., 305  
 Holden, W. A., 234  
 Holden, W. B., 99  
 Holder, J., 207  
 Holdich, Col. Sir T. H., 187  
 Holdsworth, W. S., 255, 260  
 Hollabaugh, A. N., 225  
 Holland, E. L., 169  
 Holland, E. O., 276  
 Holland, G. W., 329  
 Holland, H. A., 50  
 Holland, J. H., 195  
 Holland, J. W., 16  
 Holland, R. F., 142  
 Holland, Sir T. E., 258  
 Holland, W. E. S., 44, 45  
 Hollander, J. H., 14  
 Hollands, E. H., 136  
 Hollick, A., 244  
 Hollingsworth, H. L., 224  
 Hollingsworth, Mrs. L. S., 233  
 Hollingsworth, R. R., 287  
 Hollingsworth, W. W., 287  
 Hollinshead, W. H., 131, 225  
 Hollis, A. W., 234  
 Hollis, H. P., 180  
 Hollister, H. A., 318  
 Hollister, J. N., 200  
 Hollister, N., 332, 337  
 Hollister, R. R., 142, 251  
 Hollister, V. L., 141  
 Holmberg, F., 246  
 Holman, W. L., 269  
 Holme, E. A., 305  
 Holmer, Miss M. R. N., 86  
 Holmes, C. W., 324  
 Holmes, F. E., 121  
 Holmes, Col. G., 83  
 Holmes, G., 170  
 Holmes, G. M., 170  
 Holmes, H. N., 249  
 Holmes, H. W., 54  
 Holmes, J., 180  
 Holmes, Miss J. R., 102  
 Holmes, P. K., 80  
 Holmes, Miss R. W., 247  
 Holmes, S. J., 23  
 Holmes, W. H., 331  
 Holmes, W. M., 213  
 Holt, A., 145  
 Holt, A. H., 121  
 Holt, L. E., 234  
 Holway, R. S., 23  
 Hone, F. S., 4  
 Honeij, J. A., 229  
 Honey, Miss M. D., 89  
 Honoman, K., 326  
 Honore, R. F., 135  
 Hood, G. J., 137  
 Hood, F. C., 29  
 Hood, G. W., 142  
 Hood, Miss I. R., 240  
 Hood, J. F., 339  
 Hood, J. H., 68  
 Hoofnagle, W. R., 323  
 Hooke, S. H., 309  
 Hooker, D., 269  
 Hooker, D. R., 15  
 Hookyns, E. C., 49  
 Hool, G. A., 202  
 Hooper, Miss B. H., 211  
 Hooper, C. H., 344  
 Hooper, C. W., 336  
 Hooper, J. A. L., 40  
 Hooper, O. C., 77  
 Hoover, C. F., 68  
 Hoover, C. H., 277  
 Hoover, C. R., 216  
 Hoover, T. N., 12  
 Hope, C. W. M., 172  
 Hope, E. D., 176  
 Hope, E. W., 98, 100, 145, 147  
 Hope, J. M. V., 49  
 Hope, M. St. J., 186  
 Hope, Sir W. H. St. J., 51  
 Hopper, H. A., 124  
 Hopper, J. E., 107  
 Hoppert, E. H., 142  
 Hopkins, Annette B., 18  
 Hopkins, A. D., 331, 337  
 Hopkins, A. J., 10  
 Hopkins, A. W., 202  
 Hopkins, E. M., 114, 115, 136  
 Hopkins, E. W., 228  
 Hopkins, F. G., 47, 48  
 Hopkins, G. S., 124  
 Hopkins, H., 323  
 Hopkins, H. C., 326  
 Hopkins, Miss H. J., 245  
 Hopkins, J. B., 90  
 Hopkins, Miss M. M., 247  
 Hopkins, N. M., 325  
 Hopkins, R. H., 29  
 Hopkinson, B. M., 17  
 Hopwood, F. L., 166

# INDEX TO NAMES

- Horack, F. E., 120  
 Horack, H. C., 121  
 Hornell, W. G., 80  
 Horn, E., 121  
 Hornaday, F. A., 326  
 Horne, A. R., 2  
 Horne, G., 213  
 Horne, G. T., 24  
 Hornell, J., 204  
 Horner, W. J., 249  
 Horneyer, Miss B. E., 296  
 Horning, L. E., 309  
 Horr, A. W., 34  
 Horrigan, J. F., 62  
 Horsburgh, E. M., 92  
 Horton, A. H., 329  
 Horton, E., 282  
 Horton, E. G., 77  
 Horton, F., 98, 151  
 Horwitz, A. E., 286  
 Hosford, Miss F. J., 249  
 Hosford, H. H., 68  
 Hoskins, J. P., 272  
 Hoskins, L. M., 300  
 Hoskins, N., 163  
 Hoskins, W. H., 238  
 Hosmer, R. S., 124  
 Hostmann, J., 234  
 Hotchkiss, G. B., 237  
 Hotchkiss, L. W., 234  
 Hottes, A. C., 76  
 Hottes, C. F., 317  
 Hough, S. S., 58  
 Hough, W., 331  
 Houghton, C. E., 236  
 Houghton, E., 207  
 Houghton, H. G., 201  
 Houghton, N. H., 34  
 Houghton, T. H., 306  
 Houlton, Miss C. M., 81  
 House, R. T., 245  
 House, W., 99  
 Houser, F. W., 197  
 Houser, G. L., 120  
 Housman, A. E., 48  
 Housman, D., 107  
 Houston, D. F., 333  
 Houston, J., 107  
 Houston, I. G., 270  
 Houston, T., 22  
 Houston, W. P., 211  
 Houstoun, R. A., 105  
 Hovey, O. T., 239  
 How, A. B., 257  
 How, J. C. H., 50  
 How, J. H., 89  
 How, W. W., 257  
 Howard, A. A., 52  
 Howard, A. G., 34  
 Howard, Miss C. M., 233  
 Howard, C. McH., 17  
 Howard, C. P., 121  
 Howard, C. T., 34  
 Howard, E. E., 219  
 Howard, F. H., 341  
 Howard, G. E., 143  
 Howard, H. E., 192  
 Howard, H. W., 197  
 Howard, J. G., 25  
 Howard, J. W., 217  
 Howard, L. O., 276, 331, 333  
 Howard, R., 169  
 Howard, R. F., 142  
 Howard, R. M., 246  
 Howard, S. E., 273  
 Howard, S. G., 54  
 Howard, W. L., 24  
 Howarth, O. J. R., 186  
 Howchin, W., 4, 5  
 Howden, R., 89  
 Howe, C. D., 309, 310  
 Howe, C. S., 70  
 Howe, F. B., 329  
 Howe, G., 61  
 Howe, G. M., 74  
 Howe, G. W. O., 162, 165  
 Howe, H. C., 99  
 Howe, H. E., 123  
 Howe, J. A., 182, 183  
 Howe, M. A., 244  
 Howe, W. D., 30  
 Howell, Miss A., 143  
 Howell, A. G., 21  
 Howell, C. E., 277  
 Howell, C. M. H., 166, 174  
 Howell, E. V., 61  
 Howell, R. W., 329  
 Howell, W. H., 15  
 Howells, C. S., 163  
 Howells, G., 291  
 Howerth, I. W., 26  
 Howes, E. A., 17  
 Howes, G. E., 341  
 Howes, H., 344  
 Howes, R. R. B., 53  
 Howitt, J. E., 111  
 Howland, G. C., 63  
 Howland, J., 14  
 Howland, L. A., 216  
 Howley, J., 103  
 Howorth, Sir H. H., 188, 191  
 Howorth, R. B., 191  
 Howson, H., 266  
 Hoyle, Col. R. E. D., 228  
 Hoyles, N. W., 313  
 Hoyt, J. C., 329  
 Hoyt, P. C., 343  
 Hoyt, W. G., 329  
 Hrdlicka, A., 331  
 Hubbard, Dorothy, 262  
 Hubbard, F. G., 200  
 Hubbard, Miss G. A., 232  
 Hubbard, G. D., 249  
 Hubbard, H. V., 55  
 Hubbard, J. C., 236  
 Hubbard, H. C., 80  
 Hubbard, H. M., 228  
 Hubble, E. P., 262  
 Hubbs, C. L., 67  
 Huber, F., 234  
 Huddilston, J. H., 253  
 Hudson, A. C., 170  
 Hudson, M. O., 55  
 Hudson, T. C., 181  
 Hudson-Williams, T., 19  
 Huebner, J., 209  
 Huff, G. A., 318  
 Huff, W. B., 41  
 Huggins, R. R., 269  
 Huggins, W. L., 197  
 Huggill, Miss E. J., 305  
 Hughes, C., 172  
 Hughes, E. C., 167  
 Hughes, H. J., 55  
 Hughes, Miss H. S., 217  
 Hughes, J. A., 62  
 Hughes, J. D. I., 140  
 Hughes, P., 27, 29  
 Hughes, W. H., 260  
 Hughes, W. J., 324  
 Hughes-Hughes, A., 177  
 Hugo, Lt.-Col. E. V., 131  
 Hulbert, A. B., 343  
 Hulbert, J. R., 64  
 Hulburt, L. S., 14  
 Hulce, R. S., 203  
 Hulet, G. A., 274  
 Hull, C. H., 122  
 Hull, D. P., 277  
 Hull, Miss E., 187  
 Hull, G. F., 115  
 Hull, R. L., 246  
 Hulme, W. H., 69  
 Hulse, W., 29  
 Hult, G. E., 110  
 Humbert, Father, 135  
 Humble, H. W., 138  
 Hume, J. G., 309  
 Hume, R. E., 239  
 Hume, S. J., 23  
 Hume, W. E., 89  
 Humiston, C. E., 319  
 Humiston, W. H., 68  
 Hummel, E. L., 140  
 Hummel, F. H., 22  
 Hummel, W. G., 24  
 Hummel, R. C., 70  
 Humphrey, E. R., 116  
 Humphrey, G. C., 202  
 Humphrey, W. A., 76  
 Humphreys, H. F., 29  
 Humphreys, J. S., 55  
 Humphreys, W. J., 325, 339  
 Humphries, S., 163  
 Hundley, J. M., 16  
 Hungerford, H. B., 137  
 Hunkin, J. W., 49  
 Hunkins, C. H., 275  
 Hunner, G. Le Roy, 15  
 Hunt, A. P., 238  
 Hunt, A. S., 256, 258  
 Hunt, C. B. H., 128  
 Hunt, E. L., 123, 235  
 Hunt, G. H., 168  
 Hunt, H. L., 287  
 Hunt, P., 120  
 Hunt, R., 54  
 Hunt, R. D., 196  
 Hunt, T. F., 24  
 Hunt, T. H., 342  
 Hunt, T. W., 273  
 Hunter, A. F., 314  
 Hunter, C. A., 302  
 Hunter, D. M., 29  
 Hunter, J., 107, 312  
 Hunter, M., 279  
 Hunter, M. A., 316  
 Hunter, M. H., 318  
 Hunter, O. B., 325, 326  
 Hunter, S. J., 137  
 Hunter, T. A., 340  
 Hunter, W., 152, 172  
 Hunter, W. K., 105  
 Hunter, W. S., 137  
 Huntington, A. K., 194  
 Huntington, C. C., 75  
 Huntington, E., 228  
 Huntington, E. C., 114  
 Huntington, E. V., 54, 55  
 Huntington, G. S., 234  
 Huntington, H. B., 275  
 Huntley, G. N., 193  
 Hutton, E. D., 134  
 Hutton, S. W., 283  
 Huntsman, A. G., 309, 314  
 Hurd, L. M., 237  
 Hurd, R. J. W., 149  
 Hurlbut, B. S., 53  
 Hurley, L. E., 213, 315  
 Hurrell, A. S., 268  
 Hursh, R. K., 318  
 Hurst, G. H. J., 152, 155, 159  
 Hurst, H. E., 42  
 Hurst, W., 107  
 Hurtle, W. H., 166  
 Hurwitz, W. A., 123  
 Husain, G., 264  
 Husain, H. M., 264  
 Husain, M. N., 44  
 Husband, J., 293  
 Huse, C. P., 33, 34, 35  
 Huss, H. C. O., 273  
 Hussain, M., 10  
 Hussey, Miss M. I., 297  
 Huston, C. A., 301  
 Hutchens, H. J., 89  
 Hutchins, E. H., 17  
 Hutchins, W. J., 249  
 Hutchinson, A., 49  
 Hutchinson, A. H., 322  
 Hutchinson, C. L., 66  
 Hutchinson, Miss E. J., 233  
 Hutchinson, G. T., 269  
 Hutchinson, H. P., 305  
 Hutchinson, J., 169  
 Hutchinson, J. I., 122  
 Hutchinson, L., 24  
 Hutchinson, Mary W., 149  
 Hutchinson, R., 169  
 Hutchison, C. B., 124  
 Hutchison, J. A., 219  
 Hutchison, R., 174  
 Huth, C. F., 64  
 Huttman, Miss M. A., 233  
 Hutson, F. L., 272  
 Hutton, J. B., 105  
 Hutton, M., 309  
 Hutton, W. H., 256, 259  
 Hutton, W. K., 106  
 Hyamson, M., 239  
 Hyde, C. G., 25  
 Hyde, C. W., 326  
 Hyde, D., 85  
 Hyde, F. C. F., 158  
 Hyde, G. M., 201  
 Hyde, Miss G. S., 297  
 Hyde, Miss I. H., 137  
 Hyde, J. E., 68, 78  
 Hyde, R. R., 15  
 Hyde, Miss W., 143  
 Hyland, P. H., 202  
 Hynes, J., 103  
 Hynson, H. P., 17  
 Hypes, B. M., 286  
 Hyslop, J. H., 243  
 Hyvernatt, Very Rev. H., 327  
 Ibbotson, F., 294  
 Ibbotson, J. D., 71  
 Ibbs, J. L., 28  
 Ibrahim, M., 126  
 Ichibashi, Y., 299  
 Iddings, E. J., 223  
 Iglal, S. M., 129  
 Imms, A. D., 283  
 Ingall, D. H., 29  
 Ingalls, N. W., 68  
 Ingersoll, J. M., 67  
 Ingersoll, L. R., 201  
 Ingersoll, J. W. D., 228  
 Ingham, W. S., 134  
 Inghram, E. S., 75  
 Ingliss, A. J., 54  
 Ingliss, C. E., 47  
 Inglis, J. R. H., 87  
 Inglis, R., 68



- Inman, T. G., 300  
 Ingram, E. G., 38  
 Inghram, R. G., 114  
 Ireland, W. F., 81  
 Irish, H. E., 320  
 Irlane, R. D., 137  
 Irwin, J. C., 197, 284.  
     285  
 Irvine, R. F., 305  
 Irwin, F., 24  
 Isaac, J. F., 177  
 Isaac, P., 205  
 Isaacs, C. A., 276  
 Ise, J., 136  
 Ishad, M., 44, 299  
 Isidore, Bro., 135  
 Iveagh, Viscount, 82  
 Ives, F. W., 76  
 Ivey, P. W., 141  
 Ivins, W. M., jr., 241  
 Iyengara, T., 63  
 Iyengar, K., 224  
 Iyengar, N. K., 315  
 Iyengar, W. T. N., 224  
 Iyer, V. S. S., 224  
  
 Jabbar, M. A., 112  
 Jack, A. A., 1, 2  
 Jack, H. W., 128  
 Jack, J. G., 36  
 Jack, R., 87  
 Jack, W. R., 106  
 Jackman, W., 309  
 Jacks, L. P., 262  
 Jackson, A. L., 17  
 Jackson, C., 269  
 Jackson, Sir C., 148  
 Jackson, C. N., 54, 260  
 Jackson, D. B. D., 185  
 Jackson, D. D., 235  
 Jackson, Miss F., 13  
 Jackson, F. J. F., 239  
 Jackson, G. P., 225  
 Jackson, H., 48  
 Jackson, Miss H., 13  
 Jackson, Sir H., 148  
 Jackson, H. G., 28  
 Jackson, J., 180  
 Jackson, L. F., 276  
 Jackson, J. T., 83  
 Jackson, Miss R. E., 80  
 Jackson, S., 146  
 Jackson, W. E. W., 314  
 Jackson, W. H., 260  
 Jacob, E. V., 277  
 Jacob, F., 221  
 Jacobs, C. L., 26  
 Jacobs, C. M., 319  
 Jacobs, W. B., 275  
 Jacobson, O. B., 246  
 Jacobus, M. W., 117  
 Jacoby, F. S., 76  
 Jacoby, H., 233  
 Jacoby, H. S., 125  
 Jaeger, C. H., 235  
 Jaffa, J. S., 108  
 Jaffa, M. E., 24  
 Jagemann, H. C. G.  
     von, 53  
 Jakeman, C., 183  
 James, A., 93  
 James, A. P., 268  
 James, E. J., 317  
 James, G. B., 172  
 James, G. O., 287  
 James, H. A., 259  
 James, J. A., 203  
 James, L. H., 73  
 James, N. C., 195  
 James, P. R., 141  
 James, R. R., 168  
 James, R. W., 206  
 James, T. C., 3  
 James, W. H., 204  
 James, W. J., 216  
 James, W. W., 175  
 Jameson, A. H., 150,  
     157  
 Jameson, H., 74  
 Jameson, J. F., 333  
     337  
 Jameson, Mrs. K. W.,  
     217  
 Jameson, R. P., 249  
 Jamieson, E. B., 92  
 Jamieson, J. K., 140  
 Jamieson, Miss R. C., 2  
 Jamison, A. W., 319  
 Janiwal, S. R., 132  
 Janney, S. S., 17  
 Jansky, C. M., 202  
 Janvier, C. A. R., 8  
 Jardine, P. E., 92, 93  
 Jardine, H. S., 163  
 Jarvis, E. C., 313  
 Jasmijn, L. A., 278  
 Jastrow, J., 200  
 Jay, J. G., 16  
 Jayne, H. Le B., 266  
 Jeanotte, F., 220  
 Jeannotte, H., 221  
 Jeannotte, H. J., 277  
 Jeans, G. E., 260  
 Jeans, J. H., 184  
 Jeans, P. C., 288  
 Jeffcot, H. H., 86  
 Jefferson, B. L., 12  
 Jeffries, C. W., 119  
 Jeffries, F., 180  
 Jeffrey, E. C., 53  
 Jeffrey, R. W., 259, 261  
 Jehn, T. J., 91  
 Jelliffe, R. A., 249  
 Jenkin, C. F., 256  
 Jenkins, C., 156, 157  
 Jenkins, C. F., 259  
 Jenkins, D. R., 110  
 Jenkins, E. D. T., 3  
 Jenkins, E. H., 230, 304  
 Jenkins, E. L., 142  
 Jenkins, E. V., 199  
 Jenkins, G. J., 172  
 Jenkins, J. T., 145  
 Jenkins, T. A., 63  
 Jenkins, W. E., 30, 31  
 Jenkinson, A. J., 259  
 Jenkinson, C. H., 183  
 Jenkinson, F. J. H., 46  
 Jenkinson, H., 155  
 Jenks, A. W., 238  
 Jenks, J. W., 237  
 Jenks, L., 269  
 Jenks, L. H., 343  
 Jennings, H. S., 14  
 Jennings, J. A., 84  
 Jennings, O. E., 268,  
     269  
 Jennings, W. W., 121  
 Jensen, G. H., 277  
 Jepson, H. B., 230  
 Jepson, W. L., 23  
 Jernegan, M. W., 63  
 Jesse, R. H., jr., 217  
 Jessen, K. D., 41  
 Jessop, C. M., 89  
 Jessop, W. H., 166  
 Jessup, W. A., 120  
 Jetté, Sir L., 221, 278  
 Jevons, F. B., 88, 89  
 Jevons, H. S., 7  
 Jewell, H., 314  
 Jewett, J. R., 55  
 Jewett, R. D., 198  
 Jewson, Miss S. T., 283  
 Jex-Blake, A. J., 168  
 Jex-Blake, Miss K., 52  
 Joachim, H. H., 257  
 Jobling, J. W., 234  
 Johannsen, O. A., 122,  
     124  
 Johannson, A., 206  
 John, F. L., 3  
 Johns, C. H. W., 50  
 Johns, C. O., 337  
 Johnson, 272  
 Johnson, A., 228  
 Johnson, A. A., 142, 257  
 Johnson, A. B., 275  
 Johnson, A. C., 273  
 Johnson, A. F., 177  
     325  
 Johnson, A. G., 203  
 Johnson, A. H., 257,  
     258  
 Johnson, A. L., 211  
 Johnson, B. W., 198  
 Johnson, C., 183  
 Johnson, C. E., 137  
 Johnson, C. W., 341  
 Johnson, D. B. R., 245  
 Johnson, D. S., 14  
 Johnson, D. W., 232  
 Johnson, F. B., 227  
 Johnson, F. W., 233  
 Johnson, E. C., 276,  
     277  
 Johnson, E. F., 76  
 Johnson, E. L., 225,  
     226  
 Johnson, F. E., 138  
 Johnson, F. M. G., 219  
 Johnson, Miss G., 201  
 Johnson, G. E., 54  
 Johnson, G. H., 70  
 Johnson, H., 232  
 Johnson, H. H., 68  
 Johnson, J., 203, 228  
 Johnson, J. C., 12  
 Johnson, J. P., 237  
 Johnson, J. M., 336  
 Johnson, L. B. T., 323  
 Johnson, L. H., 98  
 Johnson, L. J., 55  
 Johnson, R., 171  
 Johnson, R. B. C., 272  
 Johnson, R. H., 268  
     269  
 Johnson, T., 86  
 Johnson, T. B., 228, 233  
 Johnson, T. C., 244  
 Johnson, W. E., 48, 51  
 Johnson, W. H., 138  
 Johnson, W. S., 136  
 Johnston, A. B., 44, 45  
 Johnston, A. J., 311  
 Johnston, G. C., 269  
 Johnston, J., 83, 158,  
     159  
 Johnston, J. I., 269  
 Johnston, R. D., 198  
 Johnston, R. M., 53  
 Johnston, R. S., 286  
 Johnston, S. J., 306  
 Johnston, T., 83  
 Johnston, T. B., 150  
 Johnston, T. H., 37  
 Johnston, W. J., 3  
 Johnstone, Miss H., 152,  
     156  
 Johnstone, J., 145  
 Johnstone, J. T., 96  
 Johnstone, P. E., 4  
 Johnstone, S. J., 179  
 Johnnott, E. S., 308  
 Joll, C. A., 175  
 Jolliffe, A. E., 259, 260  
 Jolly, W. A., 58  
 Joly, J., 83  
 Jonassens, A., 63  
 Jonas, A. F., 142, 251  
 Joncas, P., 278  
 Jones, A., 159  
 Jones, A. E., 3  
 Jones, A. H., 275  
 Jones, A. L., 234  
 Jones, A. M., 268  
 Jones, A. T., 247  
 Jones, B. J., 25  
 Jones, B. M., 3  
 Jones, C., 172  
 Jones, C. C., 101, 102  
 Jones, C. H., 16  
 Jones, C. L., 200  
 Jones, C. R., 270  
 Jones, C. S., 41  
 Jones, D., 152, 155  
 Jones, D. H., 111  
 Jones, E., 28, 180, 300  
 Jones, E. D., 197  
 Jones, E. G., 145  
 Jones, E. J., 12  
 Jones, E. L., 328  
 Jones, E. R., 202  
 Jones, E. S., 249  
 Jones, E. T., 19  
 Jones, F. E., 138  
 Jones, F. M., 114  
 Jones, F. S., 227  
 Jones, G., 19, 54, 55  
     143  
 Jones, G. E., 268  
 Jones, G. M., 248  
 Jones, Sir H., 105  
 Jones, H. C., 45  
 Jones, H. F., 110  
 Jones, H. S., 259  
 Jones, Miss H. G., 136  
 Jones, H. H., 120  
 Jones, H. I., 123  
 Jones, H. M., 217  
 Jones, H. P., 113  
 Jones, H. S., 180  
 Jones, H. S. V., 318  
 Jones, I., 19  
 Jones, J., 164  
 Jones, J. C., 281  
 Jones, J. D., 292  
 Jones, J. H., 105, 140  
 Jones, J. L., 85  
 Jones, J. M., 310  
 Jones, Sir J. M., 19, 20,  
     59  
 Jones, J. N. L., 344  
 Jones, J. O., 138  
 Jones, J. S., 146  
 Jones, J. T. A., 13  
 Jones, Lloyd, 202, 249  
 Jones, L. R., 202  
 Jones, L. T., 24  
 Jones, L. W., 242  
 Jones, M., 268  
 Jones, N., 251  
 Jones, Miss O., 77  
 Jones, O. T., 206  
 Jones, Sir R., 45  
 Jones, R. F., 287  
 Jones, R. L., 296  
 Jones, R. T., 318  
 Jones, R. W., 115  
 Jones, T. C. L., 145  
 Jones, T. E., 146, 200  
 Jones, T. F., 236  
 Jones, T. Gwynn, 3  
 Jones, T. G. H., 37  
 Jones, V. S. V., 50

# INDEX TO NAMES

- Jones, W., 14  
 Jones, W. C., 25  
 Jones, W. D., 64  
 Jones, W. F., 196, 197  
 Jones, W. G., 144  
 Jones, W. H. L., 163  
 Jones, W. H. S., 50  
 Jones, W. J., 3, 207  
 Jones, W. M., 19  
 Jones, W. N., 217  
 Jopp, C. H. R., 256  
 Jordan, E. E., 322  
 Jordan, E. M., 34  
 Jordan, E. O., 64  
 Jordan, F. C., 270  
 Jordan, H. E., 137  
 Jordan, H. G., 209  
 Jordan, H. H., 318  
 Jordap, Rt. Hon. Sir  
 J. N., 21  
 Jordan, Miss M. A., 247  
 Jordan, R. H., 115  
 Jordan, W. E., 51  
 Jordan, W. H., 103  
 Jordan, W. S., 128  
 Joseph, A. F., 127  
 Joseph, D. R., 286  
 Joseph, G. A., 73  
 Joseph, H. W. B., 258  
 Josephi, S. E., 99  
 Joslin, E. P., 54  
 Joubert, W. A., 304  
 Joy, A. H., 262  
 Joyce, G. C., 134, 260  
 Joyner, Mary C., 262  
 Judd, A. F., 270  
 Judd, C. C. W., 17  
 Judd, C. H., 62, 65  
 Judd, H., 77  
 Judd, N. M., 331  
 Judson, 271  
 Judson, A. R., 252  
 Judson, C. C., 23  
 Judson, H. P., 62, 64  
 Jukes, Miss E. M., 174  
 Juler, F. A., 174  
 Jupta, S. N. D., 131  
 Justerand, J. J., 336  
 Karapetoff, V., 125  
 Karim, M. A., 132  
 Karmakar, S., 20  
 Karmmerman J. O.,  
 202  
 Karr-Simpson, Miss H.,  
 322  
 Karsner, H. T., 68  
 Kashyap, L. S. R., 131  
 Kashyap, S. R., 130  
 Kasner, E., 234  
 Kastner, L. E., 206  
 Kastner, V. E., 159  
 Kaugh, H., 165  
 Kauffmann, O. J., 29  
 Kaufmann, A., 250  
 Kaufman, J., 234  
 Kaul, K., 126  
 Kavanagh, W. J., 324  
 Kay, D. M., 284  
 Kay, F. W., 145  
 Kay, F. K., 120  
 Kay, S. A., 92  
 Kay, T., 106  
 Kaye, G. R., 295  
 Kays, D. J., 76  
 Kayser, E. L., 324, 325  
 Kazanjian, V. H., 54  
 Kaan, G. W., 211  
 Kabyatirtha, A. M., 20  
 Kackson, H. C., 237  
 Kaackenbeeck, G. S. F.,  
 C., 261  
 Kahlenberg, L., 200  
 Kaji, H. L., 32  
 Kajiji, Hon. Mr. Justice  
 A. M., 31  
 Kalkus, J. W., 276  
 Kalusowski, H. E., 325  
 Kalyan, R. N., 133  
 Kameswaram, K., 205  
 Kamm, O., 318  
 Kammerer, F., 234  
 Kammerer, T. W., 336  
 Kamstead, C. T. T.,  
 259  
 Kane, T. F., 110  
 Kanja, J. J., 27  
 Kanjilal, P., 299  
 Kaplan, M. M., 239  
 Kapteyn, J. C., 262  
 Kapur, S. K., 131  
 Karim, M., 44  
 Keach, De W. T., 302  
 Keatinge, W. H., 257  
 Keator, A. D., 110, 111  
 Keay, Lt.-Col. J., 94  
 Keblor, L. F., 323  
 Keeble, J. B., 225  
 Keen, B. A., 283  
 Keene, H., 154  
 Keene, H. B., 28  
 Keene, Miss M. F. L.,  
 175  
 Keener, Lois M., 262  
 Keese, S. J., 198  
 Kenny, L. J., 286  
 Kehoe, C. J., 287  
 Kéidel, A., 15  
 Keighley, Miss F., 208  
 Keighley, T., 208  
 Keim, F. D., 142  
 Keir, M., 115  
 Keirstead, E. M., 313  
 Keister, D. C., 201  
 Keith, A., 167, 185, 329  
 Keith, A. B., 91  
 Keith, Miss T., 105  
 Keith, W. J., 302  
 Keitt, G. W., 203  
 Kelihier, J., 201  
 Kell, Miss J. M., 15  
 Kellas, A. M., 173  
 Keller, A. G., 228  
 Keller, Miss E., 234  
 Keller, G. J., 121  
 Keller, H. F., 266  
 Keller, J. P., 225  
 Keller, L. F., 249  
 Keller, W. J., 202  
 Kellerman, K. F., 337  
 Kelleter, P. D., 338  
 Kelley, C. F., 75  
 Kelley, J. H., 268, 270  
 Kelley, R. M., 250  
 Kelley, T. L., 233  
 Kelley, W. P., 24  
 Kelling, L., 250  
 Kellner, M., 55, 56  
 Kellock, T. H., 173  
 Kellogg, J. L., 341  
 Kellogg, V. L., 300  
 Kellog, W. G., 6  
 Kelly, A. G., 219  
 Kelly, E. C. W., 212  
 Kelly, E. F., 16, 17  
 Kelly, F. J., 136, 138  
 Kelly, F. T., 202  
 Kelly, J. P., 302  
 Kelly, R. E., 145  
 Kelly, W., 2  
 Kelso J. A., 270  
 Kelynack, T. N., 176  
 Kemmerer, E. W., 272  
 Kemp, J. F., 234  
 Kemp, W. W., 26  
 Kempner, A. J., 318  
 Kendall, Fanny J., 66  
 Kendall, J., 234, 300  
 Kendall, J. C., 90  
 Kendall, P. F., 140  
 Kendall, W. S., 227, 230  
 Kendrick, W. G., 261  
 Kendrick, A. F., 179  
 Kendrick, B. B., 233  
 Kendrie, F. E., 138  
 Kenerson, W. H., 275  
 Keniston, R. H., 123  
 Kennard, E. H., 123  
 Kennaway, E. L., 173  
 Kennedy, A. R. S., 91  
 Kennedy, C. R., 142,  
 251  
 Kennedy, C. W., 273  
 Kennedy, Very Rev. D.,  
 327  
 Kennedy, F., 123  
 Kennedy, F. L., 54, 55  
 Kennedy, H. A., 179  
 Kennedy, H. A. A., 95  
 Kennedy, J., 95, 110  
 Kennedy, P. B., 24  
 Kennedy, R., 105  
 Kennedy, R. J., 45  
 Kennedy, W., 83  
 Kennedy, W. P. M., 309  
 312  
 Kennelly, A. E., 55  
 Kennedy-Fraser, D., 92  
 Kenner, J., 293, 294  
 Kennerly, J. H., 288  
 Kenneson, T. D., 236  
 Kennett, R. H., 43  
 Kenny, 46  
 Kenny, J. E., 250  
 Kenoyer, L. A., 8  
 Kenrick, F. B., 309  
 Kent, B. C., 253  
 Kent, C. F., 229  
 Kent, H. C., 28  
 Kent, H. W., 241  
 Kent, N. A., 33, 35  
 Kent, O. B., 125  
 Kent, R. A., 138  
 Kent, T. P., 58  
 Kenwood, H. R., 151,  
 155, 171  
 Kenyon, Sir F. G., 177  
 Kenyon, Rt. Hon. Lord,  
 19, 59  
 Kenyon, T. A., 208  
 Keogh, Sir A., 164  
 Keogh, A., 227, 228  
 Ker, C. B., 93  
 Ker, W. P., 150, 155,  
 258  
 Kerby, W. J., 328  
 Kern, B. R., 325  
 Kern, E. F., 235  
 Kern, F. D., 302  
 Kern, O. J., 24  
 Kernot, W. N., 213  
 Kerr, A. T., 122, 123  
 Kerr, H. H., 326  
 Kerr, J. G., 105  
 Kerr, J. M. M., 105  
 Kerr, W. M. A., 97  
 Kerr, W. H., 92  
 Kerry, W., 212  
 Kersey, W. H., 344  
 Kershaw, J. A., 215  
 Kershaw, J. W., 293  
 Kesari, J. E., 205  
 Kessler, J. B., 121  
 Kester, F. E., 157  
 Kester, R. B., 233  
 Keswani, L. D., 81  
 Ketcham, V. A., 75  
 Ketson, L. W., 15  
 Kettle, E. H., 173  
 Keyes, E. L., 123  
 Kavalramain, M. K., 27  
 Kavalramani, G. G.,  
 81, 101  
 Kewalramani, P. B., 112  
 Keynes, J. N., 46, 48,  
 49  
 Keys, D. R., 309, 314  
 Keyser, C. E., 191  
 Keyser, C. J., 233  
 Khaleel, A., 44  
 Khaliluddin, S., 44  
 Khan, A. H., 131  
 Khan, M. A., 13  
 Khan, M. A. M., 264  
 Khan, M. U., 133  
 Khan, Z. A., 44  
 Khan-ud-din, M., 133  
 Khare, L. G., 32  
 Khosla, M. C., 126  
 Kidd, A. M., 25  
 Kidd, A. S., 109  
 Kidd, B. J., 261  
 Kidd, F., 169  
 Kidd, H. C., 268, 269  
 Kiddier, H. W., 9  
 Kiddle, D., 296  
 Kidson, F. J., 156, 157  
 Kidwell, C. H., 329  
 Kiehle, F. A., 99  
 Kiekhof, W. H., 201  
 Kierstead, W. C., 102  
 Kieselbach, T. A., 142  
 Kiger, W. H., 197  
 Kilduff, E. J., 237  
 Kilgour, B. W., 279  
 Killam, A. H., 322  
 Killam, C. W., 55  
 Killam, S. D., 77  
 Kilner, G. Q., 159  
 Kilner, G. W., 158  
 Kilpatrick, 272  
 Kilpatrick, W. H., 232  
 Kimball, A. L., 10  
 Kimball, A. R., 334  
 Kimball, A. S., 249  
 Kimball, D. S., 125  
 Kimball, E., 247  
 Kimball, Miss G. A., 9  
 Kimball, M. J., 12  
 Kimbrough, H., 276  
 Kimmins, C. W., 147  
 Kimpton, A. R., 211  
 Kind, H., 252  
 Kind, J. L., 201  
 King, A., 326  
 King, A. C., 124  
 King, A. S., 262  
 King, E. E., 318  
 King, Miss E. M. A.,  
 293  
 King, E. R., 125  
 King, F. T., 87  
 King, Miss G. G., 41  
 King, H. C., 248, 249  
 King, H. D., 264  
 King, H. E., 250  
 King, H. H., 127, 128  
 King, H. L., 249  
 King, H. M., 322  
 King, Miss H. M., 247  
 King, I., 121  
 King, J. C. E., 99  
 King, J. E., 287



- King, Jessie L., 18  
 King, J. M., 225  
 King, J. S., 305  
 King, L., 219  
 King, Miss L. S., 275  
 King, Sir L. W., 83  
 King, R. A., 119  
 King, W. B. R., 182  
 Kingsbury, B. F., 122, 123, 124  
 Kingsbury, H. K., 300  
 Kingsbury, Miss S. M., 41  
 Kingsford, A. B., 171  
 Kingsford, H. N., 115  
 Kingsford, H. S., 184  
 Kingsley, J. S., 317  
 Kingston, G. F., 342  
 Kinkead, R. J., 103  
 Kinley, D., 317, 318  
 Kinloch, J. P., 2  
 Kinne, W. S., 202  
 Kinnery, Asa, 298  
 Kinnicut, L. N., 343  
 Kinsella, W. T., 251  
 Kinsloe, C. L., 303  
 Kinsman, C. D., 142  
 Kipping, F. S., 248  
 Kippes, E. J., 29  
 Kirby, G. H., 243  
 Kirby, G. H., 123  
 Kirby, R. S., 228  
 Kirby, T. J., 268, 269  
 Kirfer, P. J., 318  
 Kirk, A., 206, 209  
 Kirk, H. B., 340  
 Kirk, J., 180  
 Kirk, K. E., 260  
 Kirkaldy, A. W., 248  
 Kirkland, J. H., 224  
 Kirkman, W. B., 228  
 Kirkpatrick, F. H., 312  
 Kirkpatrick, R., 178  
 Kirkpatrick, T. P. C., 83, 85  
 Kirkwood, F. E., 217  
 Kirkwood, M. R., 301  
 Kirkwood, W. A., 309  
 Kirshman, J. E., 146  
 Kishan, A., 299  
 Kistler, H. K., 303  
 Kitch, Miss E. M., 249  
 Kitchin, F. L., 182  
 Kitchin, G., 92  
 Kitson, C. H., 85  
 Kittredge, G. H., 56  
 Kittredge, G. L., 53, 56  
 Kittredge, R. B., 121  
 Kittredge, R. E. L., 309  
 Klar, W. H., 268  
 Kleeberger, F. L., 23  
 Kleene, G. A., 116  
 Klein, A. W., 27  
 Klein, D., 15  
 Klein, J., 54  
 Kleinschmidt, L. S., 303  
 Kleinheinz, F., 203  
 Kleyla, R., 250  
 Klink, L. S., 322  
 Kline, A. M., 289  
 Kline, E. K., 134  
 Klingaman, O. E., 120  
 Klocker, F. B., 286  
 Klotz, O., 254, 269, 314  
 Klugh, H., 162  
 Knaedel, H. C., 303  
 Knapp, A. H., 234  
 Knapp, C., 232, 257  
 Knapp, H. C., 16  
 Knauss, J. O., 302  
 Kneale, J. C., 29  
 Knebelmen, M. S., 27  
 Knecht, E., 209  
 Kneiler, R. A., 121  
 Knibbs, G. H., 306  
 Knight, A. P., 254  
 Knight, Miss C. M., 156  
 Knight, C. S., 281  
 Knight, E. H., 117  
 Knight, Mrs. E. H., 135  
 Knight, E. W., 61  
 Knight, G. W., 75  
 Knight, H., 230  
 Knight, H. G., 304  
 Knight, H. S., 135  
 Knight, J. H., 120  
 Knight, L. I., 64  
 Knight, Miss M., 301  
 Knight, N., 82  
 Knight, S. H., 134  
 Knight, W. A., 77  
 Knight, Sir W. H. H., 292  
 Knipmeyer, C. C., 303  
 Knipp, C. T., 318  
 Knoap, D., 293  
 Knobel, E. B., 186  
 Knoeh, Miss C. A., 299  
 Knoles, T. C., 289  
 Knoop, D., 293  
 Knott, C. G., 92, 96  
 Knott, H. C., 51  
 Knott, T. A., 64  
 Knox, J., 2  
 Knox, J. H. M., jr., 15  
 Knox, R., 194  
 Knox, W. S., 99  
 Knox-Shaw, H., 42  
 Knox-Shaw, T., 51  
 Knowles, F., 305  
 Knowles, F. K., 294  
 Knowles, J., 177  
 Knowles, M., 268  
 Knowles, Mrs., 151  
 Knowlton, C. D., 211  
 Knowlton, F. H., 331  
 Knowlton, H. T., 132  
 Knudson, A. C., 34, 35  
 Knudson, L., 124  
 Kober, G. M., 323, 337  
 Koch, E. W., 42  
 Koch, F. C., 64  
 Koch, F. H., 61  
 Koch, J. A., 270  
 Kochenderfer, C. C., 325  
 Kocher, A. L., 302  
 Koehler, G. A., 99  
 Koehler, L. M., 196  
 Koening, A. E., 202  
 Koessler, K. K., 64  
 Koessler, M., 249  
 Koford, C. A., 23  
 Kohler, E. P., 53  
 Kohli, M. K., 263  
 Kohlmeier, A. L., 31  
 Kohly, G. R., 133  
 Kohne, C. T., 285  
 Kolls, A. C., 336  
 Kommers, J. B., 202  
 Konantz, Miss E. L., 80  
 Konar, A. K., 205  
 Koopman, H. L., 275  
 Koren, W., 273  
 Korim, A. S. M., 44  
 Kostir, W. J., 78  
 Kotany, L., 287  
 Kothari, B. K., 200  
 Kouwenhoven, W. B., 15  
 Kovarik, A. F., 228  
 Kowalke, O. L., 202  
 Kower, H., 23  
 Krance, J. A., 250  
 Krapp, G. P., 232  
 Kratz, A. P., 318  
 Kraus, C. A., 343  
 Kraus, E. J., 200  
 Krause, K. A., 15  
 Krause, E. H., 142  
 Krauskopf, F. C., 201  
 Kreager, F. O., 276  
 Krebs, W. S., 288  
 Kreeker, F. H., 76  
 Kreider, D. A., 229  
 Krekbiel, E., 299  
 Kremers, E., 203  
 Kriebel, V. K., 219  
 Krige, J. D. A., 126  
 Kroeber, A. L., 23  
 Kroeck, L. S., 289  
 Kruegel, W. C., 276  
 Krueger, Miss J., 202  
 Krumm, S. Z., 108  
 Krummel, C. A., 80  
 Krumwiede, C., jr., 237  
 Kruse, H. O., 136  
 Kruse, P. J., 124  
 Kueny, F. J., 253  
 Kuhl, E. P., 18  
 Kuhn, H. W., 75  
 Kuhn, J. F., 246  
 Kuhn, W. F., 137  
 Kuhnmuensch, O. J., 286  
 Kuhus, O., 216  
 Kulkarni, P. V., 32  
 Kulp, V. H., 246  
 Kumar, R. K., 8  
 Kundu, U. N., 126  
 Kunhardt, Major, J. C. G., 33  
 Kunkel, B. W., 90  
 Kuntz, A., 286  
 Kunz, J., 318  
 Kurrelmeyer, W., 14  
 Kurtz, B. P., 23  
 Kurtz, C. F., 120  
 Kurtzeborn, E. E., 286  
 Kusehan, F., 246  
 Kuster, E. G., 198  
 Kyes, P., 64  
 Kyle, J. J., 197  
 Kynoch, J. A. C., 284  
 Kyrk, Miss H., 249  
 Labbe, E. J., 99  
 L'Abbe, J. H., 254  
 Labrecque, H., 221  
 Laby, T. H., 213  
 Lack, H. L., 169  
 Lacoste, Sir A., 221, 278  
 Lacroix, A., 184  
 Lacy, St. J., 73  
 Ladd, A. J., 110  
 Ladd, L. W., 68  
 Laffar, R. G. D., 50  
 La Flesche, F., 332  
 Lafleur, E., 219  
 Lafleur, H. A., 219  
 Lafleur, P. T., 218  
 La Follette, J. J. M., 31  
 Lafontaine, Judge E., 221, 278  
 Lafreniere, T., 221  
 Lagace, J. B., 278  
 La Garde, L. A., 326  
 Lager, C. H., 36  
 Lahey, F. H., 211  
 Lahey, J. A., 114  
 Lahidie, A., 13  
 Laidlaw, P. P., 163  
 Lain, E. S., 246  
 Laing, A. T., 310  
 Laing, B. M., 293  
 Laing, F., 178  
 Laing, G. J., 63  
 Laing, J. A., 213  
 Laird, A. G., 201  
 Laird, Miss A. L., 310  
 Laird, D. M. W., 95  
 Laird, Miss E. R., 297  
 Laird, J., 22  
 Lake, E. J., 317  
 Lake, G. C., 336  
 Lake, R., 55  
 Lake, N. C., 170  
 Lake, P., 48  
 Lakin, C. E., 173  
 Lal, B., 131  
 Lal, C., 133  
 Lal, K., 263  
 Lal, L. J., 127  
 Lal, L. S., 131  
 Lal, M., 130, 131, 133  
 Lal, N., 264  
 Lal, P. M., 131  
 Lal, S., 132  
 Laliberté, J. F., 278  
 Lamb, A. B., 54, 242  
 Lamb, C. G., 47  
 Lamb, E. H., 150, 163  
 Lamb, H., 206  
 Lamb, H. M., 219  
 Lamb, W. A., 329  
 Lambert, A., 123  
 Lambert, A. E., 74  
 Lambert, A. P. S., 235  
 Lambert, B., 259  
 Lambert, B. J., 121  
 Lambert, E. T., 219  
 Lambert, F. D., 211  
 Lambert, J. J., 121  
 Lambert, P. A., 26  
 Lamberton, C. D., 69  
 Lambie, J. S., 263  
 Lambourne, J., 128  
 Lambuth, D., 115  
 Lamond, R., 106  
 Lamplugh, G. W., 182, 186  
 Lamson, P. D., 15  
 Lancashire, G. H., 207  
 Lanctot, H., 222  
 Land, W. J. G., 63  
 Landacre, F. L., 76  
 Landan, J. I., 126  
 Lander, C. H., 182  
 Landon, 272  
 Landrum, Miss M., 199  
 Landry, A. E., 328  
 Landsbury, J. J., 98, 99  
 Lane, A. C., 211  
 Lane, A. L., 121  
 Lane, A. M., 90  
 Lane, C. S., 56  
 Lane, C. S., 117  
 Lane, E. B., 211  
 Lane, E. P., 202  
 Lane, F. H., 263  
 Lane, G. T., 295  
 Lane, H. H., 245  
 Lane, J. E., 173  
 Lane, Sir W. A., 167  
 Lane, W. B., 309, 311  
 Lang, A. E., 309, 311  
 Lang, Rt. Hon. and Most Rev. C. G., 258  
 Lang, H., 240  
 Lang, H. R., 223  
 Lang, J., 87

# INDEX TO NAMES

- Lang, J. M., 320  
 Lang, J. W., 27  
 Lang, P. R. S., 284  
 Lang, W. D., 178  
 Lang, W. R., 309  
 Langdon, C., 275  
 Langdon, F. J., 251  
 Langdon, S., 256  
 Lange A. F., 26  
 Lange, G. F. A., 247  
 Lauge, N. A., 70  
 Langelier, W. F., 25  
 Langfeld, H. S., 54  
 Langford, A. L., 309,  
 311  
 Langguth, A. B., 324  
 Langille, H. B., 25  
 Langley, J. N., 47  
 Langmead, F., 174  
 Langmead, F. S., 173  
 Langsdorf, A. S., 287  
 Langston, W., 246  
 Langton, H. H., 311  
 Langton, J. L., 209  
 Langworthy, W. F.,  
 114  
 Lankester, Sir E. Ray,  
 271  
 Lanman, C. R., 53, 241  
 Lanpher, S. C., 253  
 Lansdown, D. W., 305  
 Lansdown, R. G. P.,  
 39  
 Lansing, R., 337  
 Lansing, Miss R., 248  
 Lantz, C. W., 281  
 Lapage, C. P., 207  
 Lapage, G., 207  
 Lapeley, G. T., 50  
 Lapham, J. R., 325  
 Laplante-Courville, H.,  
 221, 222  
 La Porte, G. L., 235  
 Laporte, W. R., 196  
 Lapsley, G. T., 50  
 Lapworth, A., 56  
 Lapworth, H., 186  
 Larard, C. E., 164  
 Larke, J. P., 163  
 Larkin, F. C., 145  
 Larkin, F. Y., 27  
 Larkin, J. H., 235  
 Larnor, Sir J., 46, 47  
 Larne, A., 221  
 Larnet, J. B., 337  
 Laroche, O., 221  
 Larose, A., 221  
 Larouche, H., 220  
 Larremore, T. A., 100  
 Larsell, O., 203  
 Larsen, E. S., 329  
 Larsen, T., 322  
 Larson, Miss B., 233  
 Larson, C. W., 235  
 Larson, G. L., 202  
 Larson, H., 120  
 Larson, L. M., 317  
 Laskey, J. E., 324  
 Lasley, J. W., 61  
 Laslie, J., 107  
 Latans, J. H., 14  
 Latham, A. C., 168  
 Latham, A. G., 89  
 Latham, Miss A. J., 233  
 Latham, G. W., 219  
 Latham, J. G., 212  
 Lathrop, H. B., 201  
 Latif, I., 280  
 Latimer, J. W., 326  
 La Touche, A. D., 198  
 Latreille, E., 220  
 Latta, R., 105  
 Lauchheimer, S. H., 17  
 Lander, G. D., 158  
 Lauer, E. H., 120  
 Lanfer, B., 66  
 Laughlin, H. H., 72, 73  
 Lannan, G. N., 122,  
 124  
 Laurence, A., 221  
 Laurence, A. J., 222  
 Laurendeau, C., 222  
 Laurens, H., 229  
 Laureys, H., 222  
 Laurie, A. P., 94  
 Laurie, R. D., 3  
 Laver, W. A., 213  
 Laves, K., 63  
 Law, The Rt. Hon. A.  
 Bonar, 104  
 Lawford, J. B., 167  
 Lawlor, H. J., 84, 87  
 Lawrence, C. W., 186  
 Lawrence, Miss E. B.,  
 288  
 Lawrence, E. F., 98, 99  
 Lawrence, J. F., 142  
 Lawrence, L. A., 125  
 Lawrence, Miss M., 199  
 Lawrence, R. O., 50  
 Lawrence, R. V., 50  
 Lawrence, T. W. P.,  
 171  
 Lawrence, W. M., 114  
 Lawrence, W. W., 232  
 Lawson, A., 173, 284  
 Lawson, A. A., 306  
 Lawson, A. C., 23  
 Lawson, B. R., 61  
 Laws, C. R., 287  
 Lawson, E. R., 326  
 Lawson, H. W., 326  
 Lawson, J. C., 49  
 Lawson, R., 212  
 Lawson, T. R., 315  
 Laycock, C., 114  
 Laycock, Miss N., 175  
 Laylin, C. D., 77  
 Layton, T. B., 168  
 Layton, W. T., 48  
 Lea, A. M., 4  
 Lea, E. J., 24  
 Lea, F. C., 28  
 Lea, J., 149  
 Leacock, S., 218  
 Leader, H., 293  
 Leahy, A. H., 292, 293,  
 294  
 Leake, J. P., 336  
 Leaming, Miss C., 74  
 Leaming, Miss S. F., 74  
 Leaphant, C. H., 217,  
 218  
 Lear, J. E., 61  
 Leary, D. B., 42  
 Leary, Miss E., 332  
 Leary, Mrs. O. C., 211  
 Leary, T., 211  
 Leathes, J. B., 292, 293  
 Leavell, L. P., 199  
 Leavitt, F. J., 197  
 Leavitt, H. W., 253  
 Leavitt, S. E., 61  
 Lebour, Miss M. V., 271  
 Le Bray, A., 232  
 Leclerc, O., 278  
 Le Conte, J. N., 25  
 Lecours, J. E. W., 222  
 Lederer, E., 265  
 Ledingham, J. C. G.,  
 151  
 Ledwith, J. J., 141  
 Lee, B. T., 123  
 Lee, E. A., 31  
 Lee, Rev. R. J., 21  
 Lee, F. S., 234  
 Lee, G. W., 182  
 Lee, J. M., 237  
 Lee, M. A., 125  
 Lee, M. A. W., 25  
 Lee, Miss M. L., 156  
 Lee, R. I., 54  
 Lee, R. W., 219  
 Lee, Sir S., 150, 152,  
 163  
 Lee, S. G., 259  
 Lee, T. S., 324  
 Lee, W. T., 34  
 Leebrick, K. C., 24  
 Leech, F., 324, 326  
 Leedham-Green, C. A.,  
 29  
 Leek, J. De W., 66  
 Leeming, B. A., 324  
 Leenes, N. J., 217  
 Lees, A. H., 39  
 Lees, C. H., 151, 163  
 Lees, J., 2  
 Lees, J. H., 82  
 Lees, J. T., 141, 143  
 Lees, K. A., 174  
 Leet, F. L., 85  
 Leete, B. E., 279  
 Lefebure, G., 220  
 Lefroy, H. M., 165  
 Lefschetz, S., 137  
 Legacé, J. B., 220  
 Legg, L. G. W., 258  
 Legg, S. C. E., 156  
 Legg, T. P., 172  
 Legge, R. T., 23  
 Legge, T. M., 157, 207  
 Le Grade, L. A., 237  
 Lehenbauer, P. A., 319  
 Leheldt, R. A., 126  
 Leheldt, T. A., 179  
 Lehmann, A. L. F., 97  
 Lehmann, F. J., 249  
 Lehner, D. N., 23  
 Lehnert, E. H., 135  
 Lehrer, O. A. J., 246  
 Leigh, C. W. E., 208  
 Leigh, H. S., 207  
 Leigh-Sharpe, W. H.,  
 173  
 Leighton, H., 268, 269  
 Leighton, J. A., 75  
 Leighton, W. E., 286  
 Leiper, R. T., 151, 176,  
 187  
 Leitch, R. H., 108  
 Leith, B. D., 203  
 Leith, C. K., 200  
 Leitz, T. F., 16  
 Leland, O. M., 123, 125  
 Leland, W. G., 336  
 Lelandais, F., 221  
 Lelandais, F. L., 277  
 Lellman, W. O. L., 238  
 Leluan, J., 221  
 Lemberger, J. L., 265  
 Lemieux, Hon. R., 221,  
 278  
 Lemon, H. B., 64  
 Le Motte, G. A., 246  
 Lempfert, R. G. K., 180  
 Lendon, A. A., 4  
 Lenher, V., 200  
 Lenker, J. N., 68  
 Lennard, R. V., 260  
 Lennie, Miss A. B., 92  
 Lennox, P. J., 328  
 Lenox, L. R., 300  
 Lentz, F., 17  
 Lentz, V., 11  
 Leonard, A. G., 110  
 Leonard, Miss E., 197  
 Leonard, E. F., 320  
 Leonard, Miss E. P.,  
 202  
 Leonard, F. E., 248  
 Leonard, G. H., 38  
 Leonard, R. J., 26  
 Leopold, R. F., 135  
 Le Rossignol, J. E., 141  
 Le Roux, T. H., 272  
 Lesage, A., 221  
 Lescohier, D. D., 201  
 Lesher, C. E., 329  
 Lesley, E. P., 300  
 Lesley, J. W., 51  
 Leslie, P., 2  
 Leslie, R., 58  
 Leslie-Roberts, H., 145  
 Le Souef, E. A., 264  
 Lespinasse, V. D., 319  
 Lessensur, T., 221  
 Lessing, O. E., 317  
 Lester, C. B., 200  
 Le Sueur, H. R., 151,  
 167  
 Léotournean, M. F., 135  
 Lett, H., 169  
 Lenba, J. H., 41  
 Lendesdorf, C., 255  
 260  
 Leupp, H. L., 22  
 Leuschner, A. O., 23  
 Lentner, W. G., 68  
 Leutwiler, O. A., 318  
 Leveen, J., 177  
 Leverhulme, The Rt.  
 Hon. Lord, 146, 176  
 Levi, T. A., 3  
 Levie, A., 305  
 Levin, I., 237  
 Levin, V. E., 251  
 Le Wald, L. T., 237  
 Le Wall, C. H., 265  
 Lewers, Miss K., 231  
 Lewers, R., 280  
 Lewis, A., 270  
 Lewis, A. B., 66  
 Lewis, B., 286  
 Lewis, C. A., 142  
 Lewis, C. I., 24  
 Lewis, C. J., 29  
 Lewis, C. L., 71  
 Lewis, C. M., 228  
 Lewis, D. D., 64  
 Lewis, E. A., 3  
 Lewis, E. E., 121  
 Lewis, E. P., 23  
 Lewis, F. C., 146  
 Lewis, F. J., 97  
 Lewis, Florence P., 18  
 Lewis, F. T., 54  
 Lewis, G. N., 25  
 Lewis, J. C., 213  
 Lewis, Major J. C., 64  
 Lewis, L. P., 107  
 Lewis, L. R., 210  
 Lewis, Miss M., 80  
 Lewis, Miss M. D., 247  
 Lewis, R., 234  
 Lewis, T., 171  
 Lewis, W. C. M., 145  
 Lewis, W. E., 302  
 Lewis, W. H., 14, 100  
 Lewis, W. J., 47, 92  
 257  
 Lewison, M., 319  
 Lewton, F. L., 331  
 Lewton-Brain, L., 128

- Leyden, Miss L., 217  
 Leys, K. K. M., 257  
 Leyton, O., 169  
 Libman, E., 234  
 Libbey, W., 272  
 Libby, E. N., 34, 211  
 Libby, O. G., 110  
 Lichenstein, Miss C., 219  
 Licklider, A. H., 341  
 Lichty, J. A., 269  
 Lichty, L. C., 245  
 Liddy, R. B., 283  
 Lieb, C. C., 235  
 Lieder, P. R., 247  
 Life, A. C., 196  
 Lightfoot, R. M., 58  
 Lighty, W. H., 201  
 Ligoury, 135  
 Lilienthal, H., 123  
 Lillie, F. R., 63  
 Lillie, R. S., 343  
 Lilly, L. A., 286, 287  
 Lilly, W. E., 83  
 Lim, R. K. S., 92  
 Lincoln, A. T., 316  
 Lincoln, F. C., 281  
 Lincoln, W., 344  
 Lindley, C. H., 25  
 Lindquist, O. A., 249  
 Lindsay, A. D., 257  
 Lindsay, Mrs. G. E., 78  
 Lindsay, J. A., 22  
 Lindsay, J. C., 196  
 Lindsay, S. McC., 235  
 Lindsay, W. S., 291  
 Lindsey, J. L., 245  
 Line, J., 283  
 Linforth, J. M., 23  
 Ling, G. H., 290, 291  
 Lingle, I. J., 64  
 Lingley, C. R., 115  
 Linhart, S. B., 268  
 Linn, J. W., 63  
 Linstrom, E. W., 203  
 Linticum, G. M., 16  
 Linton, E. M., 31  
 Linton, R. G., 95  
 Linnville, T., 327  
 Lipman, C. B., 23, 23  
 Lipman, J. G., 226  
 Lippincott, Miss E., 67  
 Lippincott, I., 288  
 Lippitt, Miss L. C., 202  
 Lippmann, G., 286  
 Lischer, B. E., 288  
 Lisse, M. W., 303  
 Lister, T. D., 147  
 Liston, Lieut.-Col. W. G., 33  
 Litchfield, H. W., 10  
 Litman, S., 318  
 Litsitz, S. T., 286  
 Litterer, W. Jr., 225  
 Little, A. G., 206  
 Little, A. P., 168  
 Little, C. C., 72  
 Little, E. G., 174  
 Little, E. G. G., 147  
 Little, F. R., 342  
 Little, W., 259  
 Littledale, H., 60  
 Littlehales, G. W., 325  
 Littlejohn, H., 92  
 Littlewood, J. E., 50  
 Liveing, G. D., 50  
 Livermore, K. C., 124  
 Liversidge, A., 306  
 Livingston, A. C., 336  
 Livingston, B. E., 14  
 Livingston, G., 333  
 Livingstone, R. W., 259  
 Lloyd, A. C. G., 58  
 Lloyd, B. J., 336  
 Lloyd, F. E., 219  
 Lloyd, Hon. Sir G. A., 31  
 Lloyd, H. H., 18  
 Lloyd, J. E., 19  
 Lloyd, J. W., 319  
 Lloyd, J. S., 182  
 Lloyd, M. D. I., 206  
 Lloyd, W. K., 25  
 Lobban, J. H., 159  
 Lobeck, A. K., 202  
 Lochhead, W., 220  
 Locher, R. W., 17  
 Lock, C. J., 190  
 Lock, W., 255, 260  
 Lockard, G. C., 16  
 Locke, A. W., 247  
 Locke, E. A., 54  
 Locke, F. S., 152, 157  
 Locke, G. H., 314  
 Lockhart, J. S., 260  
 Lockwood, C. D., 198  
 Lockwood, E. H., 229  
 Lockwood, G. R., 234  
 Lockwood, H. J., 90  
 Lockwood, W. F., 16  
 Lockyer, C., 170  
 Lodewyckx, A., 212  
 Lodge, G., 232  
 Lodge, Sir R., 91  
 Loeb, H. W., 286  
 Loeb, L., 288  
 Loeb, V., 286  
 Loeffel, W. J., 142  
 Loetscher, F. W., 274  
 Loevenhart, A. S., 203  
 Loew, E. A., 256  
 Loewe, H. M. J., 257  
 Loewenberg, J., 24  
 Logan, F. G., 66  
 Logan, H. T., 322  
 Logan, W. N., 31  
 Logeman, W. S., 58  
 Lohr, V. J., 326  
 Loiseaux, L. A., 232  
 Lomas, A. D., 208  
 Lomas, Mrs. S. C., 183  
 Lomer, G. R., 220  
 Loney, S. L., 98, 147  
 Long, A. G., 110  
 Long, E. H., 42  
 Long, J. A., 24  
 Long, J. S., 271  
 Long, Le R., 245  
 Long, O. W., 341  
 Long, W. S., 137  
 Longbottom, J. G., 107  
 Longcope, W. T., 234  
 Longden, A. C., 102  
 Longland, W., 164  
 Longley, W. H., 18  
 Longley, W. R., 229  
 Longman, H. A., 38  
 Longwell, H. C., 273  
 Lonn, Ella, 18  
 Loomis, E. H., 274  
 Loomis, F. B., 10  
 Loomis, M. E., 236, 237  
 Looney, R. E., 246  
 Losely, C. J., 174  
 Lord, A. R., 109  
 Lord, C. E., 118  
 Lord, C. S., 6  
 Lord, D. A., 285  
 Lord, Eleanor L., 181  
 Lord, E. W., 33  
 Lord, F. P., 115  
 Lord, G. D., 115  
 Lord, H. C., 75  
 Lord, H. G., 233  
 Lord, J. P., 142, 251  
 Lord, J. W., 15  
 Lord, L. E., 249  
 Lord, R. H., 54  
 Lorenzen, E. G., 229  
 Lorimer, W. L., 284  
 Lorrain, L., 222  
 Lorrain, L. P., 221  
 Lothian, Miss E., 215  
 Lothrop, H. A., 54  
 Loud, G. C., 137  
 Loudon, Mrs. E. V., 248  
 Louderbeck, G. D., 23  
 Loudon, T. R., 310  
 London, W. J., 309  
 Lough, J. E., 237  
 Loughlin, G. H., 329  
 Louis, H., 89  
 Louis, J. B., 286  
 Lounsbury, B. F., 320  
 Lony, P., 36  
 Love, 184  
 Love, A. E. H., 256  
 Love, E. F. J., 213  
 Love, E. G., 54, 281  
 Love, H. H., 124  
 Love, T. J., 324  
 Loveday, G. E., 207  
 Loveday, T., 89  
 Lovejoy, A. O., 14  
 Lovelace, B. F., 14  
 Loveland, G. A., 142  
 Lovell, E. B., 235  
 Lovett, R. M., 62, 63  
 Lovett, R. W., 54  
 Lovitt, W. V., 74  
 Low, A., 2  
 Low, G. C., 157, 176  
 Low, R. C., 93  
 Low, Sir S., 156  
 Low, V. W., 173  
 Lowe, C. B., 265  
 Lowe, P. R., 178  
 Lowe, W. D., 89  
 Lowell, A. L., 36, 53  
 Lowenthal, Miss E., 247  
 Lower, W. E., 68  
 Lowes, J. L., 53  
 Lowie, R. H., 240  
 Lowman, G. S., 201  
 Lowrey, L. T., 197  
 Lowstuter, W. J., 34, 35  
 Lowther, W. E., 281  
 Lowry, T. M., 150, 168, 194  
 Lowry, W., 83  
 Lowy, A., 269  
 Lucas, A., 29  
 Lucas, E. D., 129, 131  
 Lucas, F. A., 239  
 Lucas, J. J., 8  
 Lucas, N. S., 187  
 Luce, A. A., 83, 84  
 Luce, G. H., 279  
 Luch, M. J., 27  
 Lucke, C. E., 235  
 Luckenbill, D. D., 64  
 Luckett, W. H., 237  
 Luckhandt, A. B., 64  
 Luebs, A. A., 141  
 Luehring, F. W., 274  
 Luke, J., 107  
 Lull, R. S., 228, 230  
 Lumpkin, J. C., 16  
 Lumsden, D., 125  
 Lund, G. L., 197  
 Lundberg, Miss M. G., 69  
 Luney, F. W., 196  
 Lunn, A. C., 63  
 Lunn, A. G., 322  
 Lunn, R., 182  
 Lunt, H. L., 197  
 Lupson, J. T., 213  
 Lupton, A. G., 139  
 Luciens, R. B., 228  
 Lushby, S. G., 37  
 Lusk, G., 123  
 Lusk, W. C., 237  
 Lusk, W. F., 124  
 Lussky, G. F., 217  
 Lutz, F. E., 240  
 Lutz, H. L., 249  
 Lybber, A. H., 317  
 Lydall, Miss G. O. E., 163  
 Lyde, L. W., 155  
 Lyle, H. H. M., 234  
 Lyle, H. W., 171, 172  
 Lyle, J. V., 183  
 Lyle, R. P. R., 89  
 Lyman, E. W., 239  
 Lyman, J. F., 76  
 Lyman, R. A., 141  
 Lyman, R. La V., 65  
 Lyman, T., 53  
 Lynam, C., 191  
 Lynani, E. W. F., 177  
 Lynch, J. B., 280  
 Lynch, M. C., 26  
 Lynde, C. J., 220  
 Lynn, F. S., 17  
 Lynn, Miss M., 136  
 Lyon, A. C., 253  
 Lyon, A. E., 202  
 Lyon, D. G., 55, 56  
 Lyon, D. M., 92  
 Lyon, H., 233  
 Lyon, I. P., 42  
 Lyon, J. H. H., 233  
 Lyon, M. W., jr., 337  
 Lyon, P. C., 257  
 Lyon, T. L., 124  
 Lyons, H. W., 119  
 Lyons, R. E., 30  
 Lys, F. J., 260  
 Lyster, R. A., 166  
 Lyte, Sir H. C. M., 183  
 Lythgoe, A. M., 241  
 Lyttel, E. S., 296  
 Maas, A. R., 198  
 MacAfee, J. B., 176  
 Macalister, A., 47  
 Macalister, C. J., 145  
 MacAlister, Sir D., 104  
 Macalister, R., 87  
 Macalister, R. A. S., 85  
 MacAlister, W. K., 225  
 Macan, R. W., 257  
 Macara, J., 254  
 Macartney, W. A., 107  
 Macatee, H. C., 339  
 Macaulay, F. R., 24  
 Macaulay, W. H., 49  
 Macbeth, A. K., 22  
 MacBride, E. W., 165  
 MacClintock, W. D., 63  
 MacCormack, H., 173  
 MacCracken, H. N., 271  
 MacCracken, J. H., 90  
 MacCullum, M. W., 305  
 MacCullum, S. M., 310  
 MacCallum, W. G., 14  
 MacCurdy, G. G., 228  
 MacCurry, G. G., 230  
 Macdonald, A., 101, 257, 294  
 Macdonald, Miss A., 2  
 Macdonald, A. A., 310



# INDEX TO NAMES

- Macdonald, D. B., 117  
MacDonald, D. J., 31  
MacDonald, F. C., 272  
Macdonald, H. M., 2,  
192  
Macdonald, J. A., 188,  
291  
Macdonald, J. H., 106  
MacDonald, J. S., 145  
MacDonald, Miss P.,  
303  
Macdonald, R. A., 144  
MacDonald, T. H., 337  
MacDonald, W. L., 322  
Macdonell, A. A., 256,  
257  
Macdonell, Sir J., 150,  
155  
MacDougall, D. T., 316  
MacDougall, R. S., 95  
Macdowell, E. C., 72  
Macelwane, J. B., 286  
MacEnri, S. P., 103  
Macewen, Sir W., 105  
Macfadyn, W. A., 272  
MacFall, J. E. W., 145  
MacFarland, Sir J. H.,  
212  
MacFarlane, A. G., 177  
MacFarlane, J. J., 267  
MacFarlane, Hon. J. R.,  
270  
MacFarlane - Grieve,  
Capt. A. A., 89  
MacGillivray, A., 284  
MacGillivray, A. D.,  
317  
MacGowan, G., 197  
MacGregor, A. N., 106  
MacGregor, A. S. M., 106  
MacGregor, D. H., 206  
MacGregor, F. H., 202  
MacGregor, J. A., 196  
MacGregor, J. H., 234  
MacGregor, J. M., 152,  
160  
Macgregor, M., 182  
Macgregor, W. R., 126  
MacHelli, H. T., 310  
Machen, J. G., 274  
MacInnes, C., 38  
MacInnes, I., 322  
Macintosh, D. C., 229  
MacIntosh, W., 285  
MacIntyre, F. A., 114  
Macintyre, J., 26, 105  
MacIver, R. M., 309  
Mack, A., 250  
Mack, E. H., 76  
Mack, J. F., 249  
Mack, J. W., 65  
Mack, Miss M. E., 281  
Mackay, A. E., 99  
Mackay, Miss A. M., 291  
Mackay, E., 113  
Mackay, Miss H., 175  
Mackay, H. J. H., 153,  
157  
Mackay, H. M., 219  
Mackay, I. A., 291  
Mackay, J. H., 118  
Mackay, J. R., 284  
Mackay, J. R., 95  
Mackay, J. Y., 284  
Mackay, K. G., 291  
MacKavangh, T. J., 328  
MacKee, A., 305  
MacKee, G. M., 235  
MacKee, R. H., 235  
Mackellar, D. J., 107  
Macken, Mrs. M. M., 85  
Mackenzie, A. H., 304  
Mackenzie, A. S., 112  
Mackenzie, C. J., 290,  
291  
Mackenzie, D. S., 96  
Mackenzie, H., 340  
Mackenzie, Lt.-Col. H.  
H., 131  
Mackenzie, H. W. G.,  
107  
Mackenzie, J. A. P., 188  
Mackenzie, J. E., 92  
Mackenzie, J. J., 254,  
310  
Mackenzie, K. A. J.,  
98, 99  
Mackenzie, K. J. J., 48  
Mackenzie, Miss L., 81  
Mackenzie, M. A., 309  
Mackenzie, W. D., 117  
Mackenzie, W. R., 287  
Mackenzie, W. T., 284  
Mackey, J. E., 212  
Mackie, J. D., 284  
Mackie, T. J., 58  
Mackie, W. W., 25  
Mackimmie, A. A., 10  
Mackinder, Sir H. J.,  
152  
Mackinnon, C. N., 12  
Mackinnon, Miss D. L.,  
157  
Mackinnon, J., 91  
Mackinnon, J. G., 319  
Mackinnon, J. L., 107  
Mackintosh, A., 2  
Mackintosh, A. B., 224  
Mackintosh, C. T., 231  
Mackintosh, H. R., 95  
Mackintosh, H. W., 83  
Mackintosh, J., 91  
Mackintosh, R., 207  
Mackintosh, W. A., 37  
Macklin, C. C., 15, 269  
Macklin, T., 203  
MacLachlan, W. W. G.,  
269  
MacLagan, His Hon. Sir  
E., 129  
MacLagan, E. R. D., 179  
MacLaren, Hon. Mr.  
Justice, 311  
MacLaren, M., 274  
MacLaurin, R. D., 291  
MacLean, M., 107  
MacLennan, S. F., 248  
MacLeod, 272  
MacLeod, A., 2  
MacLeod, J. J. R., 309,  
312  
MacLeod, J. M. H., 170,  
176  
Macloskie, G., 274  
MacMahon, C., 166  
MacMahon, Major P. A.,  
186, 192  
MacMechan, A., 112,  
113  
Macmillan, C., 219  
Macmillan, M., 29  
MacMillan, W. D., 63  
Macmillan, W. M., 126  
MacMurray, A., 136  
MacMurray, J., 206  
Macnamara, E. D., 170  
MacNaughton, E., 211  
MacNaughton, P., 94  
MacNeill, H. L., 36, 37  
MacNeill, J. G. S., 85  
MacNeill, M., 112, 113  
MacNider, W. de B., 61  
MacNutt, B., 27  
Macphail, A., 266  
MacPherson, A. T., 8  
Macqueen, J., 158  
MacRae, D. A., 112, 113  
Macrae, L., 262  
Macran, H. S., 83  
MacTaggart, Miss C. S.,  
162  
MacTaggart, J. S., 274  
Macurdy, G. H., 271  
MacWilliam, J. A., 2  
Madan, B. K., 299  
Madden, Miss E. P., 199  
Madden, J. T., 237  
Madden, J. W., 77, 246  
Maddison, Isabel, 40  
Madigan, P. S., 323  
Madin, W. T., 29  
Madras, the Governor  
of, 204  
Madson, B. A., 24  
Magee, J. D., 237  
Magee, W. E., 237  
Mageninis, A. J., 79  
Magennis, W., 85  
Magie, D., 272  
Magie, W. F., 272, 274  
Magnus, Sir P., 147, 160  
Magnusson, J. S., 120  
Magoffin, R. V. D., 14  
Magrath, J. R., 257  
Magro, Hon. E., 321  
Magruder, W. T., 77  
Mahaffy, R. P., 183  
Mahan, C. H., 324  
Mahieu, R. G., 137  
Mahon, R. B., 102  
Mahanti, P., 45  
Maiden, J. H., 306, 307  
Mailhot, A., 221  
Mailhouse, M., 229  
Main, A., 234  
Mair, A., 144  
Mair, A. W., 91  
Mair, Mrs., 162  
Mairet, G., 163  
Mairs, T. I., 302  
Maisch, A. F., 197  
Maitra, C. B., 43  
Maitra, K. M., 133  
Maitra, S. M., 294  
Major, R. H., 137  
Major-Stevenson, Mrs.  
I. C., 156  
Makins, Sir G. H., 167  
Makower, W., 206  
Malcolm, A. J., 157  
Malcolm, J., 87  
Malcolm, R., 196  
Maldeis, H. J., 16, 17  
Malden, H. E., 112, 193  
Malherbe, D. F. du T.,  
272  
Malherbe, W. E., 304  
Mall, F. P., 17  
Mallory, F. B., 54  
Mallory, W. J., 326  
Malone, P., 222  
Malone, T. H., 225  
Maltby, Miss M. E., 234  
Manchester, F., 201  
Manchester, Miss, 199  
Mandel, A. R., 237  
Mandel, J. A., 237  
Mangan, J., 103  
Mangan, T. J., 6  
Manges, M., 237  
Mangham, S., 89  
Manghirmalani, N. L.,  
299  
Manghirmalani, T. L.,  
126  
Mangam, C. S., 61  
Manby, J. J., 259  
Manly, J. M., 68  
Manley, L. K., 268  
Manmohan, L., 131  
Mann, A., 325, 332  
Mann, A., jr., 216  
Mann, A. H., 46  
Mann, A. R., 124, 125  
Mannan, M. A., 44  
Mannhardt, F. X., 286  
Manning, E. T., 142  
Manning, H. P., 275  
Manning, I. H., 61  
Manning, W. A., 308  
Manry, J. C., 8  
Manseau, C., 221, 222  
Manse, E. S., jr., 76  
Manson, Sir P., 170, 176  
Manson-Baker, P. H.,  
176  
Manthey-Zorn, O., 9  
Mantoux, P. J., 151  
Manwaring, W. H., 300  
Many, N. V., 277  
Many, V., 221  
Maquire, F. S., 324  
Maquire, J. R., 212  
Marbury, C. C., 324  
Marceau, E., 278  
March, F. A., jr., 90  
March, H. W., 202  
Marchant, E. C., 258  
Marchant, E. W., 145  
Marcon, C. A., 255  
Marey, W. L., 11  
Marden, C. C., 272  
Marden, T. B., 16  
Mardis, S. K., 12  
M'Arde, J. S., 85  
Mardling, C. R., 160  
Marett, R. R., 255, 256,  
257  
Margetson, A. J., 162  
Margoliouth, D. S., 256,  
258  
Margoliouth, H. M., 156  
Margolis, M. L., 265  
Marine, D., 68  
Mark, E. L., 53, 56  
Mark, H. T., 208  
Markle, D. L., 303  
Marks, H. J., 306  
Marks, J., 206  
Marks, L. S., 55  
Marlatt, Miss A. L., 201  
Marlatt, C. L., 334  
Marler, W. de M., 219  
Marlow, F. W., 310  
Marneck, J., 2  
Marois, A., 278  
Marot, T., 222  
Marquand, A., 272  
Marquard, W. B., 90  
Marquardt, C. F., 302  
Marquis, F. W., 77  
Marr, Col. E. H., 13  
Man, J. E., 47  
Marriott, G. L., 29  
Marriott, J. A. R., 260  
Marriott, W. M., 288  
Marsan, M. I. J. A., 135  
Marsan, A., 221  
Marsden, Z., 340  
Marsden, H., 145  
Marsden, Miss M. E.,  
162  
Marsden, P. H., 145,  
146

- Marsden, R. R., 115  
 Marsden, W. A., 177  
 Marsh, F. S., 51, 157  
 Marsh, G. L., 63  
 Marsh, J. E., 257  
 Marsh, S., 162  
 Marshall, Mrs. A. G., 223  
 Marshall, C. J., 172  
 Marshall, C. R., 2  
 Marshall, Lt.-Col. D. G., 93  
 Marshall, E. K., jr., 288  
 Marshall, E. W., 270  
 Marshall, F. H., 51  
 Marshall, F. H. A., 48, 50  
 Marshall, G., 168  
 Marshall, G. A. K., 181  
 Marshall, I. D., 212  
 Marshall, J. P., 33, 35  
 Marshall, J. T., 207  
 Marshall, J. W., 3  
 Marshall, L., 239  
 Marshall, L. C., 62, 65  
 Marshall, W. B., 331  
 Marshall, W. S., 201  
 Marshman, J. T., 302  
 Marston, O. J., 196  
 Martel, C., 334  
 Martin, A., 95  
 Martin, A. E., 302  
 Martin, C. A., 105, 125  
 Martin, C. B., 248  
 Martin, C. F., 219  
 Martin, C. J., 150, 175  
 Martin, C. T., 233  
 Martin, E. J., 70  
 Martin, E. K., 171  
 Martin, Miss E. N., 298  
 Martin, E. W., 300  
 Martin, F., 16  
 Martin, Capt. F. J., 127  
 Martin, H., 133  
 Martin, H. M., 142  
 Martin, J. T., 246  
 Martin, L. H., 226  
 Martin, O. R., 141  
 Martin, P., 274  
 Martin, P. A., 300  
 Martin, R., 245  
 Martin, R. F., 179  
 Martin, R. W., 270  
 Martin, S. A., 90  
 Martin, S. H. C., 148  
 Martin, T. C., 326  
 Martin, W., 234  
 Martin, W. H., 303  
 Martindale, Miss N., 11  
 Martindell, E. W., 191  
 Martineau, C. E., 29  
 Martzoff, C. L., 12  
 Marvel, F. W., 275  
 Marvin, A., 95  
 Marvin, C. F., 333  
 Marx, A., 239  
 Marx, C. D., 300  
 Marx, G. H., 300  
 Masaryk, T. G., 157  
 Mascarenhas, J. C., 163  
 Maskelyne, A. St. J. S., 183  
 Masker, W. A., jr., 328  
 Maska, D. G., 232  
 Masson, D. O., 213  
 Mason, D. T., 24  
 Mason, Elizabeth C., 18  
 Mason, Miss E. S., 247  
 Mason, Miss L., 199  
 Mason, J. A., 66  
 Mason, J. F., 122  
 Mason, L., 228  
 Mason, M., 201  
 Masson, O., 306  
 Mason, Miss R. E. C., 30, 31, 317  
 Mason, T. W., 302  
 Mason, W., 145  
 Mason, W. F., 296  
 Mason, W. P., 315  
 Mast, S. O., 14  
 Masterman, J. C., 269  
 Massey, L. M., 125  
 Massey, R. E., 127  
 Massillamoni, A. D., 205  
 Masson, D., 221  
 Masson, H. J., 236  
 Masson, I., 156  
 Matheny, W. A., 12  
 Mather, F. J., 272  
 Mather, S., 67  
 Mather, T., 161, 165  
 Mathers, F. C., 31  
 Mathers, J. G., 329  
 Mathers, R. P., 284  
 Matheson, D. C., 95  
 Matheson, E. G., 322  
 Matheson, F. W., 260  
 Matheson, P. E., 253  
 Matheson, R., 125  
 Mathews, E. B., 14  
 Mathews, G. B., 19  
 Mathews, G. M., 192  
 Mathews, J. M., 318  
 Mathews, S., 14, 62, 64  
 Mathewson, C. H., 228  
 Mathewson, L. C., 115  
 Mathur, P. L., 133  
 Matimis, Sir G. H., 167  
 Matson, R. C., 99  
 Matson, R. W., 99  
 Matthew, Dorothy G., 149  
 Matthew, E., 93  
 Matthew, W. D., 240  
 Matthai, G., 130  
 Matthews, B., 232  
 Matthews, B. E., 173  
 Matthews, C. G., 12  
 Matthews, D. J., 282  
 Matthews, Mrs. D. J., 283  
 Matthews, E. R., 151, 155  
 Matthews, F. S., 235  
 Matthews, G. M., 291  
 Matthews, H. B., 204  
 Matthews, J. H., 201  
 Matthews, J. R., 159  
 Matthews, R., 125  
 Matthews, S. W., 322  
 Matthews, W. R., 156, 157  
 Mattingly, H., 178  
 Mattison, J. H., 344  
 Mattinson, F. C. E., 197  
 Mattison, R. V., 265  
 Matzinger, H. G., 42  
 Mauchly, S. J., 339  
 Maudsley, A. P., 187  
 Maudsley, Sir H. C., 212  
 Maulick, P. N., 133  
 Maur, R. F., 135  
 Maurauff, Abbe O., 221  
 Maurer, E. R., 202  
 Maurice-Carton, F. I., 212  
 Mawer, A., 89  
 Mawson, Sir D., 4  
 Mawson, J. H., 144  
 Mawson, S., 155  
 Maxey, C. L., 341  
 Maxey, E., 141  
 Maxon, W. R., 331, 336  
 Maxwell, Miss C. E., 83  
 Maxwell, E., 222  
 Maxwell, Miss J., 30  
 Maxwell, Miss L., 31  
 Maxwell, L. A. I., 213  
 May, C. E., 31  
 May, D. W., 210  
 May, Miss M. G., 2  
 Mayall, R. H. D., 51  
 Mayer, A. G., 314  
 Mayer, E. E., 269  
 Mayer, R. E., 235  
 Mayfield, G. R., 225  
 Maynard, Hon. Sir H. J., 129  
 Maynard, L. A., 125  
 Maynard, W. H., 114  
 Mayo, G. E., 37  
 Mayor, J., 309  
 Mayrand, R., 278  
 Mazhar, M., 44  
 McAdie, A. G., 53, 56  
 McAlister, E. H., 99  
 McAlpine, A. N., 108  
 McAlpine, E. G., 224  
 McArthur, L. E., 325  
 McAtee, W. L., 337  
 McAulay, A., 118  
 McBain, H. L., 232  
 McBain, J. W., 39  
 McBrady, R., 309, 312  
 McBride, C. G., 303  
 McBride, W. L., 137  
 McBryan, T., 103  
 McCabe, D. A., 273  
 McCabe, W., 225  
 McCaffery, R. S., 202  
 McCaleb, Miss E., 271  
 McCall, R. A., 148  
 McCall, W. A., 233  
 McCallister, W. J., 22  
 McCallum, H. A., 195  
 McCambell, E. F., 76  
 McCandlish, D., 140  
 McCandlish, L. C., 268  
 McCarthy, C. H., 328  
 McCarthy, F. P., 211  
 McCarthy, H. D., 17  
 McCarthy, J. B., 342  
 McCarthy, J. F., 235  
 McCarthy, J. J., 323  
 McCarthy, J. P., 37  
 McCarty, L. B., 136  
 McCarty, Stella, 18  
 McCarty, W. J., 34  
 McCaughey, W. J., 75, 77  
 M'Caw, A. E., 1071  
 McCay, Lieut.-Col. D., 46  
 McCay, L. W., 274  
 McClanahan, H. M., 142, 253  
 McClean, H. J., 197  
 McCleary, S., 16  
 McClellan, G. B., 272  
 McClelland, J. A., 85, 87, 182  
 McCleneghan, S., 251  
 McClenahan, H., 272, 274  
 McClenahan, W. S., 254  
 McClintock, J. T., 121  
 McClure, C. F. W., 274  
 McClure, O. E., 12  
 McClure, W. K., 274  
 McCoard, G. W., 75  
 McColleston, L. S., 210  
 McCollum, E. V., 15  
 McComas, H. C., 274  
 McConaughy, J. L., 102  
 McConn, C. M., 317  
 McConnell, A. W., 310  
 McCook, Rev. J. J., 116  
 McCord, Miss J. L. V., 329  
 McCorkell, E. J., 309, 312  
 McCormack, E. I., 23  
 McCormick, J., 250  
 McCormick, P. J., 197, 328  
 McCormick, R. L., 308  
 McCormick, S. B., 268  
 McCormick, Sir W. S., 182  
 McCourt, T. A., 286  
 McCourt, W. E., 287  
 McCoy, G. W., 197, 336  
 McCoy, J., 237  
 McCoy, J. C., 237  
 McCoy, J. D., 198  
 McCoy, J. R., 198  
 McCoy, T. J., 197  
 McCracken, C. C., 75  
 McCracken, Miss M. I., 300  
 McCrea, N. G., 232  
 McCrea, R. C., 232  
 McCready, J. H., 269  
 McCreath, H. M., 305  
 McCrimmon, A. L., 313  
 McCrudden, F. H., 211  
 McCullam, G. B., 247  
 McCulloch, E. A., 312  
 McCulloch, H. M., 37  
 McCulloch, J. D., 95  
 McCulloch, J. C., 249  
 McCully, B., 276  
 McCurdy, J. C., 125  
 McCurdy, S. L., 270  
 McCusker, C. J., 99  
 McDaniel, A. B., 325  
 McDermott, G. R., 125  
 McDiarmid, R. J., 254  
 McDonald, H. K., 113  
 McDonald, J., 287  
 McDonald, J. G., 31  
 McDonald, Miss M. B., 302  
 McDonald, S., 89  
 McDonald, J. H., 23  
 McDonald, W. J., 121  
 McDonnell, R. A., 229  
 McDonough, V. S., 324  
 McDougall, D. G., 118  
 McDougall, G. W., 219  
 McDougall, R. S., 92  
 McDougall, W., 193, 256, 259  
 McDougall, W. B., 318  
 McDowall, A. S., 258  
 McDowell, J. E., 299  
 McDowell, M. S., 302  
 McEachran, J. M., 97  
 McElderry, R. K., 103  
 McElfresh, C. W., 16  
 McElfresh, W. E., 341  
 McElroy, B. L., 80  
 McElroy, R. McN., 372  
 McElwain, Miss M. B., 247  
 McEwen, E. M., 121  
 McEwen, R. S., 249  
 McFadyean, Sir J., 151, 158, 189  
 McFall, J. E. W., 146  
 McFall, J. M., 326  
 McFarland, R. S., 229  
 McFarland, D. F., 317



# INDEX TO NAMES

- McFarland, F. M., 300  
McFarlane, C. T., 232  
McFarlane, J., 2  
McGahey, Florence I., 141  
McGannon, M. C., 225  
McGehee, W. H. O., 68  
McGehee, L. P., 61  
McGhee, J., 107  
McGibbon, D. M., 97  
McGiffert, A. C., 239  
McGiffert, J., 316  
McGibhiray, H. I., 62  
McGill, J. T., 225  
McGivray, E. B., 201  
McGivray, C. D., 312  
McGinnis, C. S., 102  
McGlannan, A., 16  
McGlashan, H. D., 329  
McGlone, B., 16  
McGlumphy, C. B., 121  
McGoun, A., 219  
McGovney, D. O., 121  
McGowan, J., 310  
McGowan, J. P., 94  
McGregor, Sir J., 84, 86  
McGregor, Miss E. A., 314  
McGregory, J. F., 114  
McGuire, H. A., 319  
McGuire, E. R., 42  
McGuire, J. C., 320  
McIlwaine, L., 235  
McIlwain, C. H., 53  
McIlwraith, K. C., 310  
McInerney, T. J., 125  
McInnes, W., 254  
McIntosh, A. C., 61  
McIntosh, D., 322  
McIntosh, D. S., 113  
McIntosh, R. D., 312  
McIntosh, W. C., 192  
McIntyre, 313  
McIntyre, Miss C. F., 134  
MacIntyre, G., 106, 107  
McIntyre, J. L., 2  
McIntyre, L. W., 263  
McKay, H. S., 286  
McKay, R., 175  
McKechnie, R. E., 322  
McKechnie, W. S., 106  
McKee, A. B., 301  
McKee, S. J., 36  
McKeever, W. A., 136  
McKelvy, E. C., 337  
McKenna, C. M., 320  
McKenna, T. M. T., 269  
McKenzie, J., 32  
McKenzie, K., 317  
McKewen, P. W., 310  
McKergow, C. M., 219  
McKerron, R. G., 2  
McKibben, P. S., 195  
McKie, G. McF., 61  
McKiel, H. W., 233  
McKimmie, O. A. M., 326  
McKinlay, P. G., 231  
McKinna, J., 177  
McKinney, J., 313  
McKnight, G. H., 75  
McLaehlan, H., 206  
McLagan, W., 264  
McLaren, W. W., 341  
McLaughlin, A. C., 63  
McLaughlin, A. R., 197, 277  
McLaughlin, G. R., 12  
McLaughlin, J. F., 309, 311  
McLaughlin, R. G., 208  
McLaury, H. L., 279  
McLay, W. S. W., 313  
McLean, Major F. R., 233  
McLean, J. A., 322  
McLean, K. S., 80  
McLean, N., 48, 50  
McLean, R. C., 60  
McLeerie, J., 279  
McLennan, E. I., 213  
McLennan, J. C., 309  
McLeod, Miss C. T., 12  
McLeod, J., 107  
McLeod, N., 270  
McLoughlin, P. J., 328  
McLouth, L. A., 236  
McLucas, V. R., 197  
McMahon, J., 122  
McMahon, J. E., 274  
McMartin, C., 251  
McMaster, L. R., 287  
McMenamy, M., 285, 286  
McMillan, C., 274  
McMillan, D., 58  
McMillan, R. H., 166  
McMillan, W. H., 243  
McMillen, J. A., 288  
McMillen, S. T., 286  
McMullen, W. H., 174  
McMurray, P. K., 202  
McMurray, O. K., 25  
McMurrich, J. P., 309  
McMurry, 142  
McMurry, F. M., 232  
McMurry, N. L., 203  
McMurtry, J. G., 74  
McNally, R. F., 287  
McNair, A. D., 49  
McNair, A. J., 168  
McNairn, N. H., 313  
McNaught, H. Y., 301  
McNeal, E. H., 75  
McNee, J. W., 106, 171  
McNeil, A., 328  
McNeil, G., 196  
McNeil, H. C., 325  
McNeile, H. A., 84  
McNeile, L. G., 197  
McNeill, J., 85  
McNeilly, R. H., 225  
McNown, W. C., 138  
McPeck, C., 77  
McPhedian, A., 310  
McPhee, Miss M., 143  
McPherson, W., 75  
McPhie, D., 107  
McRae, J., 212  
McRae, W., 71  
McRoberts, R. H., 288  
McRow, T., 189  
McSweeney, E. P., 78  
McTaggart, D. B., 219  
McTaggart, J. McT. E., 50  
McWhood, L. B., 115  
McWilliam, P. A., 231  
McDonald, A., 107  
Mead, A. D., 275  
Mead, A. R., 80  
Mead, C. D., 26  
Mead, C. W., 240  
Mead, D. W., 202  
Mead, E., 24  
Mead, G. H., 63  
Mead, S. V., 326  
Mead, W. E., 216  
Mead, W. J., 201  
Meader, F. D., 309, 312  
Meaker, A. E., 26  
Meakins, J., 92  
Meakins, J. C., 92  
Meara, F. S., 123  
Mears, B., 341  
Mechem, P. R., 65  
Mecklin, J. M., 268, 269  
Medlar, A. W., 142  
Medley, D. J., 105  
Meek, A., 89  
Meek, Miss E. B., 302  
Meek, H., 195  
Meek, W. J., 201  
Meeks, E. V., 125, 230  
Meenan, J. N., 85  
Megular, Miss E. C., 137  
Mehrtens, H. G., 301  
Mehta, R. D., 45  
Mehta, V. M., 27  
Meier, H., 252  
Meiklejohn, A., 9, 10  
Meiklejohn, R., 77  
Meinzer, O. E., 329  
Melander, A. L., 276  
Melbourne, A. C. V., 37  
Melhuish, Miss S., 151, 160  
Mellanby, A. L., 107  
Mellanby, D., 169  
Mellanby, J., 167  
Melland, C. H., 207  
Mellane, S. H., 207  
Meller, H. B., 268, 269  
Melloffe, P. J., 180  
Melville, C. E., 343  
Melvin, F. E., 136  
Melvin, G. S., 2  
Mendel, L. B., 229  
Mendell, C. W., 228  
Mendenhall, F. E., 201  
Menig, O., 276  
Menne, F. R., 99  
Mennell, 167  
Mensching, J. E., 104  
Mensel, E. H., 247  
Menzies, G. K., 185  
Menzies, A. W. C., 274  
Menzies, J. A., 89  
Meras, A. A., 233  
Merced, J., 50  
Merced, W. F., 12  
Merceda, A., 321  
Mercier, A., 221  
Mercier, L. J. A., 54  
Mercil, A., 278  
Meredith, E. W., 260  
Meredith, H. O., 21, 22  
Meredith, Hon. Sir W. R., 308  
Merewether, Sir E., 146  
Merfield, C. J., 298  
Mergendahl, T. E., 211  
Merigold, B. S., 343  
Merrett, W. H., 165  
Merriam, C. E., 63  
Merriam, H. G., 217  
Merriam, J. C., 23  
Merriam, W. H., 280  
Merrick, S. K., 16  
Merrifield, F., 64  
Merrill, A. S., 217  
Merrill, E. T., 63  
Merrill, G. E., 25  
Merrill, G. P., 331  
Merrill, L. H., 253  
Merrill, L. S., 252, 253  
Merrill, R. W., 262  
Merrill, W. A., 23  
Merriman, Rt. Hon. J. X., 58  
Merriman, P. J., 78  
Merriman, R. B., 53  
Merriman, R. W., 168  
Merrin, A. H., 213  
Merritt, A. H., 234  
Merritt, A. K., 227  
Merritt, E. G., 122  
Merry, Capt. A. G., 233  
Merry, G. N., 120  
Merton, T. R., 113  
Merwe, C. D., 304  
Meschter, C. K., 27  
Messerve, A. B., 115  
Mess, C. J., 325, 326  
Messenbaugh, J. F., 246  
Messer, W. S., 115  
Metealf, C. L., 76  
Metealf, T. N., 249  
Metealf, W., 24  
Metealf, E. P., 224  
Metealf, O. K., 293  
Metz, C. W., 72  
Mewton, W. A., 215  
Meyer, A., 14, 237  
Meyer, A. H., 277  
Meyer, A. L., 15  
Meyer, A. W., 300  
Meyer, P. A., 250  
Meyer, Miss F. A., 77  
Meyer, H. H. B., 334  
Meyer, J. J., 64  
Meyer, K. A., 320  
Meyers, G. T., 142  
Meylan, G. L., 232  
Michaud, Miss R., 247  
Michael, A., 53  
Michael, J. H., 311  
Michell, R. B., 202  
Michelli, P. J., 176  
Michelson, A. A., 63, 262  
Michelson, T., 325, 332, 337  
Miebie, J. L., 37  
Mickel, C. E., 142  
Mickey, C. E., 141  
Micklem, N., 148, 262  
Middlebush, F. A., 102  
Middlemass, J., 89  
Middleton, A. E., 180  
Middleton, F. G., 213  
Middleton, W. S., 203  
Midha, S. D., 133  
Midjo, C., 125  
Mierow, C. C., 74  
Miers, Sir H. A., 182, 205, 206, 208, 255  
Mifsud, A., 321  
Mifsud, C., 321  
Mignault, D., 220  
Mignault, Hon. Mr. Justice P. B., 219  
Mignault, G., 221  
Miles, A., 93  
Miles, E. J., 229  
Miles, J. C., 257, 259  
Miley, T. H., 324  
Milham, W. L., 341  
Milks, H. J., 124  
Mill, J., 92  
Millar, A. V., 201, 202  
Millar, E. G., 177  
Millar, J. H., 91  
Millar, W. N., 310  
Millen, P. E., 111  
Miller, A., 5  
Miller, Miss A. E., 247  
Miller, A. F., 314  
Miller, Addie L., 262  
Miller, A. W., 265  
Miller, B. L., 27  
Miller, Mrs. B. A., 249

- Miller, C. H., 169  
 Miller, C. S., 270  
 Miller, C. W. E., 14  
 Miller, D., 107  
 Miller, D. C., 70  
 Miller, D. S., 238  
 Miller, D. W., 277  
 Miller, E. A., 248  
 Miller, F. J., 63  
 Miller, F. K., 195  
 Miller, G. A., 317  
 Miller, G. B., 326  
 Miller, G. S., jr., 331  
 Miller, H. A., 249  
 Miller, H. C., 107  
 Miller, H. L., 202  
 Miller, J., 93, 107  
 Miller, J. A., 234  
 Miller, J. E., 217  
 Miller, Hon. J. J., 270  
 Miller, J. K., 268, 269  
 Miller, J. M., 98  
 Miller, N. C., 303  
 Miller, P. T., 134  
 Miller, R. B., 80  
 Miller, R. T., 269  
 Miller, S. N., 105  
 Miller, S. O., 233  
 Miller, S. R., 15  
 Miller, T., 93  
 Miller, W. J., 247  
 Miller, W. L., 309  
 Miller, W. S., 203  
 Miller, W. de W., 240  
 Milligan, F. P., 94  
 Milligan, G., 104, 106  
 Milligan, H. N., 180  
 Milligan, Sir W., 207  
 Millikan, C. E., 197  
 Millikan, R. A., 63  
 Milliken, S. M., 242  
 Mills, H. A., 63  
 Mills, Hon. A. R., 127  
 Mills, C. H., 201  
 Mills, H. E., 271  
 Mills, T. E., 250  
 Mills, T. R., 284  
 Mills, W. H., 50  
 Mills, W. C., 77  
 Millsbaugh, C. F., 67  
 Milne, F. M., 284  
 Milne, H. J. M., 177  
 Milne, Miss J. J., 29  
 Milne, J. R., 92  
 Milne, L. S., 137  
 Milne, R., 169  
 Milne, W. E., 90  
 Milne, W. P., 140  
 Milner, S. R., 293  
 Milner, Viscount, 146, 258  
 Milner, W. S., 309  
 Milroy, J. A., 22  
 Milroy, T. H., 22  
 Milroy, W. F., 142, 251  
 Milsam, J. N., 128  
 Milward, J. G., 203  
 Mims, E., 224  
 Minchin, H. D., 75  
 Miner, H. S., 242  
 Miner, M. A., 320  
 Miner, R. W., 240  
 Minet, W., 184  
 Mingana, A., 206  
 Minns, E. H., 48  
 Minor, J. R., 15  
 Minor, R. C., 324  
 Minor, R. S., 23  
 Minot, G. R., 55  
 Minshall, E., 163  
 Minshall, R. E., 303  
 Misener, G., 97  
 Misklen, W., 344  
 Miskovsky, L. F., 249  
 Misner, E. G., 125  
 Mitchell, A. A., 106  
 Mitchell, A. C., 96, 181  
 Mitchell, D. T., 252  
 Mitchell, E. K., 117  
 Mitchell, G. I., 268  
 Mitchell, G. J., 202  
 Mitchell, G. W., 16  
 Mitchell, H. B., 234  
 Mitchell, H. G., 210  
 Mitchell, H. H., 319  
 Mitchell, H. P., 179  
 Mitchell, J. H., 212  
 Mitchell, J. P., 300  
 Mitchell, Miss M. J., 245  
 Mitchell, R. L., 17  
 Mitchell, R. B., 107  
 Mitchell, R. M., 270  
 Mitchell, R. McB., 275  
 Mitchell, R. V., 276  
 Mitchell, S. K., 228  
 Mitchell, Sarah L., 66  
 Mitchell, P. C., 184, 187  
 Mitchell, P. H., 275  
 Mitchell, U. G., 137  
 Mitchell, W., 3, 4  
 Mitcheson, A. T., 149  
 Mitman, C. W., 331  
 Mitra, J. N., 81  
 Mitra, N. N., 45  
 Mitra, N. B., 8  
 Mitter, P. C., 43  
 Mittra, C., 263  
 M'Kenzie, A., 284  
 M'Loughlin, E. P., 85  
 M'Neil, A., 92  
 M'Neil, C., 93  
 Moberley, W. H., 258  
 Mode, P. G., 64  
 Moe, G. G., 322  
 Moehmann, C. H., 282  
 Moenkhaus, W. J., 30  
 Moerk, F. X., 265  
 Moffitt, E. L., 302  
 Mohan, M., 263  
 Mohler, J. R., 333  
 Molesworth, E. H., 306  
 Mollett, C. E., 217, 218  
 Mollison, C. H., 213  
 Mollison, W. L., 46, 49  
 Mollinson, W. M., 168  
 Molony, W. R., 198  
 Moloney, H. J., 77  
 Monahan, Hon. F. J., 45  
 Monckton, H. W., 185  
 Moncur, G., 107  
 Mond, R. L., 194  
 Mondle, D., 45  
 Mondle, J. C., 45  
 Monk, G. S., 99  
 Monks, G. H., 54  
 Monnet, J. C., 246  
 Monnett, V. E., 245  
 Monroe, T. K., 105  
 Monroe, B. S., 123  
 Monroe, P., 232  
 Monroe, W. S., 318  
 Monzarrat, K. W., 145  
 Monsch, Miss H., 125  
 Montague, F. C., 155, 257  
 Montague, W. P., 234  
 Monteith, J. C., 100  
 Montgomery, C. C., 197  
 Montgomery, E. G., 124  
 Montgomery, G. R., 228  
 Montgomery, J., 144  
 Montgomery, J. A., 241  
 Montgomery, J. H., 196  
 Montgomery, L. M., 76  
 Montgomery, R. E., 252  
 Montgomery, R. H., 232  
 Montillon, E. D., 125  
 Montpetit, E., 220, 221, 222, 278  
 Moodie, R. L., 320  
 Moody, Bertha M., 56  
 Moody, G. T., 147  
 Moog, W. T., 247  
 Mookerji, R., 224  
 Mooney, J., 332  
 Moore, A. B. J., 219  
 Moore, A. E., 78, 209  
 Moore, A. W., 63  
 Moore, B., 190  
 Moore, B. E., 143  
 Moore, B. F., 136  
 Moore, C. H., 113, 334, 336  
 Moore, C. H., 53  
 Moore, D. R., 249  
 Moore, Miss E., 137  
 Moore, E. C., 55  
 Moore, E. H., 63  
 Moore, E. J., 42  
 Moore, E. S., 301, 303  
 Moore, F. C., 207  
 Moore, F. D., 320  
 Moore, F. G., 232  
 Moore, G. E., 48  
 Moore, G. F., 55  
 Moore, G. T., 288, 289  
 Moore, H. F., 318  
 Moore, H. L., 233  
 Moore, H. T., 115  
 Moore, J. B., 235  
 Moore, J. G., 202  
 Moore, J. H., 34, 223  
 Moore, J. L., 166, 271  
 Moore, J. P., 266  
 Moore, J. W., 225  
 Moore, Miss M., 253  
 Moore, Miss M. E., 12  
 Moore, R., 95  
 Moore, R. A., 202  
 Moore, R. C., 137  
 Moore, R. W., 114  
 Moore, T. S., 98, 159  
 Moore, U., 235  
 Moore, V. A., 124  
 Moore, W. C., 15, 326  
 Moore, W. H., 212  
 Moore, W. L., 325  
 Moores, A., 304  
 Moorehead, F. B., 317, 320  
 Moorey, C. B., 76  
 Moorison, Lt.-Col. H. W., 188  
 Moorman, L. J., 246  
 Moorty, N. N., 224  
 Moorow, J., 89  
 Moos, N. A. F., 31  
 Moot, A., 6  
 Mordell, L. J., 159  
 More, A., 180  
 More, R. P., 27  
 Moreau, G., 220  
 Morecroft, J. H., 235  
 Morehouse, D. W., 82  
 Moreno, H. C., 300  
 Moreton, A. L., 166  
 Morey, L., 317, 318  
 Morey, C. R., 272  
 Morgan, A. E., 100  
 Morgan, Miss A. F., 23  
 Morgan, Miss A. H., 297  
 Morgan, A. M., 4  
 Morgan, C. L., 38  
 Morgan, D. J., 3  
 Morgan, E. M., 229  
 Morgan, F. G., 213, 214  
 Morgan, F. M., 115  
 Morgan, G. T., 28  
 Morgan, H. W., 225  
 Morgan, J. H., 150, 155, 162  
 Morgan, J. J., 235  
 Morgan, J. L. R., 233  
 Morgan, L. N., 245  
 Morgan, O. S., 235  
 Morgan, P. G., 341  
 Morgan, R. F., 42  
 Morgan, R. R., 136  
 Morgan, S. W., 273  
 Morgan, T. H., 233  
 Morgan, V., 197  
 Morgan, W., 39, 60, 128  
 Morgan, W. G., 323, 338  
 Morgulis, S., 251  
 Moriarty, G. P., 49  
 Morice, F. D., 257  
 Morin, J. L., 219  
 Morin, L. J. S., 278  
 Morin, S., 221  
 Morin, V., 221, 254, 278  
 Morison, C. G. T., 257  
 Moritz, S., 207  
 Morize, A., 54  
 Morley, Miss E. J., 280  
 Morley, F., 14, 168, 243  
 Morley, G. H., 28  
 Morley, H. F., 170, 184  
 Morley, J., 207  
 Morley, Rt. Hon. Viscount, 205, 208  
 Morley, S. G., 23  
 Morley, W., 215  
 Morrall, W. B., 101  
 Morrill, A. D., 71  
 Morris, C. C., 75  
 Morris, C. T., 77  
 Morris, G. D., 30  
 Morris, G. G., 49  
 Morris, J. L., 68  
 Morris, J. T. MacG., 163  
 Morris, Miss M. B., 339  
 Morris, O. M., 276  
 Morris, R., 13  
 Morris, R. P., 163  
 Morris, S., 20  
 Morris, V., 99  
 Morris, W. A., 23  
 Morris, Airey H., 89  
 Morrison, A., 104  
 Morrison, A. C., 2  
 Morrison, C. C., 142, 251  
 Morrison, C. W., 248  
 Morrison, D., 284  
 Morrison, F. B., 203  
 Morrison, H. A., 234  
 Morrison, H. C., 65  
 Morrison, I. F., 97  
 Morrison, J. B., 219  
 Morrison, J. G., 334  
 Morrison, J. R., 89  
 Morrison, J. T., 304  
 Morrison, J. T. J., 29  
 Morrison, R. L., 326  
 Morrison, Sir T., 88  
 Morrison, W. F., 143  
 Morriss, Miss M. S., 297  
 Morriss, Miss S. J., 203  
 Morrow, J. M., 74  
 Morrow, L. W., 245  
 Morrow, L. W. W., 229  
 Morse, A. E., 273  
 Morse, A. H., 229

# INDEX TO NAMES

- Morse, A. L., 211  
Morse, B. T., 36, 37  
Morse, F. W., 10  
Morse, J. L., 54, 108  
Morse, W. J., 253  
Mortimer, G. B., 203  
Morton, A. E., 163  
Morton, A. H., 341  
Morton, A. S., 291  
Morton, C. A., 39  
Morton, C. H., 184  
Morton, D. W., 98, 100  
Morton, J. R., 12  
Morton, W. B., 22  
Moschewitz, A. V., 234  
Mosemiller, C. A., 30  
Moser, C., 300  
Moses, A. J., 235  
Moses, S. T., 204  
Mosher, C. D., 300  
Mosher, H. P., 54  
Mosier, J. G., 319  
Moss, C. E., 126  
Moss, Miss L. B., 303  
Moss, L. De G., 235  
Moss, Miss M. T., 12  
Moss, R. J., 86  
Moss, W. L., 55  
Mossier, R., 320  
Motherwell, R. M., 254  
Motley, E. T., 68  
Mottet, R. H., 74  
Mottet, M. G., 336  
Mottier, C. M., 30  
Moudy, R. B., 134  
Moulton, C. W., 271  
Moulton, F. R., 63  
Moulton, H. G., 63  
Moulton, The Rt. Hon.  
    Lord, 46, 147  
Moure, F. A., 308  
Mounsey, J. L., 91  
Mouncastle, H. W., 68  
Mountford, J. F., 92  
Mownt, B., 259  
Moxon, A. A., 290, 291  
Moyer, I. J., 269  
Moyle, J. B., 258  
Moynihan, B. G. A., 140  
Moyse, C. E., 218  
Mozeley, J. R., 49  
Mozumdar, K. C., 200  
M'Quistan, D. B., 107  
Muek, J. T., 309  
Muchmore, G. B., 123  
Mudd, H. G., 288  
Mudge, G. P., 169, 175  
Muecke, F. E., 169  
Mueller, E. F., 339  
Mueller, P. W., 313  
Muhammad, D., 133  
Muir, A. G., 94  
Muir, J., 107  
Muir, J. R., 206  
Muir, R., 105  
Muirhead, A. L., 250  
Muirhead, J. H., 29  
Mukarji, S. N., 81  
Mukherjee, K. C., 256  
Mukerjee, K. K., 233  
Mukerji, K. K., 292  
Mukerji, N., 13  
Mukerji, N. C., 8  
Mukerji, N. N., 292  
Mukerji, S. C., 291  
Mukerji, S. N., 81  
Mukerji, V. A., 13  
Mukhopadhyaya, Hon.  
    Justice Sir A., 45, 46  
Muldoon, W. E., 124  
Mulford, W., 24  
Mullalby, G. T., 163  
Muller, C. E., 202  
Muller, H. F., 233  
Muller, R. T., 253  
Mullin, R. H., 322  
Mullins, G. W., 234  
Mullins, E. Y., 199  
Mulloek, A., 33  
Mumford, A. H., 207  
Mumford, F. B., 75  
Mumford, H. W., 319  
Mumma, M. C., 120  
Muncey, Miss E. B., 72  
Mundy, Miss L., 143  
Mungo, D. B., 106  
Munro, A., 46, 50  
Munro, D. C., 272  
Munro, J. A. R., 258  
Munro, M. J., 291  
Munro, M. S., 211  
Munro, R., 191  
Munro, W. B., 53  
Muntsch, A., 286  
Murad, F. U., 6  
Murch, H. S., 273  
Murdoch, H. B., 92  
Murdoch, J., 305  
Murdoch, W. L. F., 264  
Murison, A. F., 155, 255  
Murlin, L. H., 33  
Murnaghan, F. D., 14  
Murnaghan, J. A., 85  
Murphy, E. B., 340  
Murphy, C. J., 324  
Murphy, Miss C. S., 163  
Murphy, F. E., 137  
Murphy, J. F. K., 324  
Murphy, Miss M. C., 81  
Murphy, T. A., 67  
Murphy, V. J., 312  
Murray, A. T., 299  
Murray, D. A., 219  
Murray, Major E. B.,  
    229  
Murray, E. W., 136  
Murray, G. G. A., 256,  
    269  
Murray, The Hon. Sir  
    G. J. R., 3  
Murray, G. R., 207  
Murray, H., 112, 113  
Murray, J., 107, 173,  
    259  
Murray, J. A., 176  
Murray, J. O. F., 51  
Murray, S. J., 107  
Murray, T. J., 277  
Murray, W. C., 290  
Murray, W. G. R., 57  
Murray, W. H., 115, 312  
Murrill, W. A., 244  
Musbach, F. L., 203  
Muse, B. P., 16  
Mustard, J. H., 61  
Mustard, W. P., 14  
Mussell, F. E., 142  
Mussen, A. A., 143, 146  
Muteh, N., 167  
Muzzy, D. S., 233  
M'Wenney, E. J., 85  
M'Wenney, H. C., 85  
Myers, A. J. W., 117  
Myers, B. D., 30  
Myers, C. E., 302  
Myers, C. H., 124  
Myers, Miss C. L., 69  
Myers, C. S., 47, 49, 52  
Myers, G. W., 63  
Myers, H. B., 99  
Myers, J. E., 207  
Myers, J. L., 256, 258  
Myers, J. S., 77  
Myers, J. T., 251  
Myers, R. E., 16  
Myers, W., 209  
Myers, W. I., 125  
Myers, W. L., 120  
Myers, W. S., 272  
Myerson, A., 211  
Myles, W. H., 92  
Myraud, E., 254  
Myszka, C. S., 25  
Mysore, His Highness  
    the Maharaja of, 223  
Mysore, His Highness  
    the Yuvaraja of, 223  
Nabano, D., 174  
Nadeau, E., 277  
Nadeau, L. E., 278  
Nag, K. C., 132  
Nagant, M. H., 135  
Nagel, D. H., 257, 259  
Nagle, J. F., 237  
Nahl, P. W., 23  
Naik, K. P. U. U., 315  
Nairne, A., 46, 50  
Naish, A. E., 293  
Naish, Mrs. L., 293  
Naismith, J., 136  
Nalder, F. F., 276  
Nambiar, K. P. K., 315  
Nambiar, K. R., 205  
Nammack, C. E., 123  
Nance, F. J., 215  
Nance, J. T., 23  
Nand, L. S., 230  
Nand, S., 131  
Nanda, I. C., 133  
Nanfan, F., 174  
Nanjundayya, H. V.,  
    223  
Nanson, E. J., 212  
Nantel, A., 278  
Napier, T. B., 147  
Narain, B., 133  
Narain, C., 299  
Narayanawami, V., 295  
Nardin, Miss P. L., 202  
Narey, Miss H. W., 297  
Nariman, S. K., 31  
Nash, Miss F. G., 249  
Nash, G. V., 244  
Nash, N. B., 55, 56  
Nasini, R., 184  
Nasmyth, H. D., 134  
Nasou, A. H., 236  
Nath, A., 299  
Nath, B., 199  
Nath, L. K., 81  
Nath, P., 299  
Natha, A., 10  
Nathan, P. W., 237  
Nauta, R. D., 53  
Nayes, A., 273  
Naylor, E. W., 51  
Naylor, H. D., 4  
Nazir, H., 44  
Neal, H. V., 211  
Neal, R., 289  
Neale, L. E., 16  
Neave, S. A., 181, 188,  
    194  
Nebel, W., 202  
Needham, J. G., 122,  
    124  
Needler, G. H., 309  
Neef, F. J., 115  
Neethling, J. H., 304  
Neff, F. H., 70  
Neff, L. K., 237  
Neff, T. L., 64  
Neher, F., 274  
Neil, C. E., 34  
Neild, N., 39  
Neilson, C. H., 286  
Neilson, J., 290, 291  
Neilson, Miss N., 297  
Neilson, W. A., 247  
Nelli, G., 222  
Nelligan, R. F., 10  
Nelson, A., 134  
Nelson, B. C., 64  
Nelson, C. A., 141  
Nelson, Miss C. A., 80  
Nelson, C. F., 137  
Nelson, Miss E., 215  
Nelson, E. W., 271, 333  
Nelson, H. D., 312  
Nelson, J. M., 234  
Nelson, J. W., 24  
Nelson, Miss L. A., 72  
Nelson, Capt. J. J. H.,  
    131  
Nelson, N. C., 240  
Nelson, S. B., 276  
Nemec, C. J., 251  
Nemiah, R. C., 115  
Neser, C. P., 252  
Nettleton, G. H., 228  
Nettleton, H. R., 159  
Neubauer, F. J., 316  
Neuhaus, E., 23  
Neuhoff, F., 286  
Neuhoff, L. G., 288  
Neumann, F., 337  
Neveau, R., 221  
Neuens, C. R., 211  
Neven, R., 277  
Neville, K. P. R., 195  
Nevils, W. C., 323  
Nevin, A., 138  
New, C. W., 36  
Newall, H. F., 151, 186  
Newbery, E., 58  
Newbolt, G. P., 145  
Newbury, Miss G. M.,  
    37  
Newby, E. R., 245  
Newcomb, C. M., 80  
Newcomb, R., 318  
Newcomer, 272  
Newell, F. H., 318  
Newell, F. S., 54  
Newell, L. C., 33, 35  
Newham, H. B., 176  
Newkirk, G., 197  
Newland, H. S., 4  
Newlands, W., 87  
Newlin, W. J., 9  
Newman, H. H., 63  
Newman, W. L., 257  
Newsholme, H. P., 167  
Newstead, R., 145, 147  
Newton, A. P., 151, 155,  
    156  
Newton, D. G., 293  
Newton, E. A., 197  
Newton, H. A. S., 213  
Newton, H. C., 250  
Newton, H. W., 180  
Newton, Miss I., 193  
Newton, P., 324  
Newton, R. B., 178  
New Zealand, His Ex-  
    cellency the Governor-  
    General of, 340  
Nicc, L. B., 246  
Nicholas, S. D., 23  
Nicholas, T. C., 50  
Nicholls, A. G., 113  
Nicholls, J. R., 180  
Nichols, E. F., 228



- Nichols, E. H., 54  
 Nichols, E. L., 122  
 Nichols, G. E., 228  
 Nichols, H. J., 323  
 Nichols, N. W., 67  
 Nichols, J., 77  
 Nichols, J. B., 326  
 Nichols, J. T., 240  
 Nichols, O. C., 24  
 Nichols, Miss S. P., 249  
 Nichols, W. H., 242  
 Nicholson, A. I., 107  
 Nicholson, C. M., 286  
 Nicholson, E. B., 177  
 Nicholson, Sir F. A., 204  
 Nicholson, F. C., 93  
 Nicolson, F. W., 216  
 Nicholson, G. G., 303  
 Nicholson, G. W., 163  
 Nicholson, Miss H., 305  
 Nicholson, J. A., 218  
 Nicholson, J. S., 91, 105  
 Nicholson, J. W., 151, 156, 157  
 Nicholson, K. R., 43  
 Nicholson, S. B., 262  
 Nickles, J. M., 329  
 Nicol, C. C. W., 249  
 Nicol, J. W., 106  
 Nicolet, B. H., 64  
 Nicoll, M., jr., 237  
 Nierenstein, M., 39  
 Nightingale, H. T., 120  
 Niles, A. S., 17  
 Nisbet, R. G., 105  
 Nitze, W. A., 63  
 Niven, C., 2, 181  
 Nixon, E. L., 302  
 Nixon, J. W., 282  
 Nixon, W. F., 321  
 Noakes, F., 170  
 Noble, C. A., 23  
 Noble, G. K., 240  
 Noble, M. C. S., 61  
 Nobbs, P. E., 219  
 Noble, W. C., jr., 237  
 Nock, T. C., 123  
 Noe, A. C., 64  
 Noel, L. G., 225  
 Nolan, A. W., 319  
 Nolan, E. J., 266  
 Nolan, W. J., 250  
 Nold, H. E., 77  
 Nolen, W. F., 211  
 Nolin, J., 221  
 Noll, C. F., 302  
 Nolting, E. L., 205  
 Nordeen, C. E., 329  
 Norie, J. C., 344  
 Norman, C. A., 77  
 Norman, H. J., 172  
 Normand, C. W. B., 296  
 Normenton, H., 87  
 Norrie, Van H., 234  
 Norris, C., 123  
 Norris, E. T., 340  
 Norris, J. W. C., 161  
 Norris, R. V., 72  
 Norris, F. de la Mare, 128  
 Norsworthy, L. D., 326  
 North, C. C., 76  
 Northcroft, G., 169  
 Northcroft, H., 169  
 Northrup, H. B., 303  
 Northrup, W. P., 237  
 Northumberland, Duke of, 185  
 Northup, C. S., 123  
 Northup, E. F., 274  
 Northup, G. T., 63  
 Norton, A. E., 51, 55  
 Norton, C. P., 41  
 Norton, J. F., 64  
 Norton, J. N., 66  
 Norton, R. H., 211  
 Norwood, G., 60  
 Notcutt, H. C., 304  
 Nottingham, W., 6  
 Nourse, E. E., 117  
 Nova Scotia, Bishop of, 342  
 Nowell, D., 21  
 Nowlin, Miss N., 137  
 Noyes, A. A., 266  
 Noyes, E. R., 325  
 Noyes, F. B., 320  
 Noyes, G. R., 23  
 Noyes, W. A., 317  
 Nugent, O. B., 254  
 Nun, T. P., 150  
 Nunn, G. M., 264  
 Nunn, R., 99  
 Nuthall, A. W., 29  
 Nutt, H. W., 138  
 Nuttall, G. H. F., 47  
 Nutting, Miss M. A., 232  
 Nutting, C. C., 120  
 Nutting, H. C., 23  
 Nye, A. W., 197  
 Nye, P. B., 215  
 Nyswander, J. A., 281  
 Oakeley, Miss H. D., 156  
 Oakes, Miss E. M., 249  
 Oakley, T. P., 80  
 Oastler, F. R., 234  
 O'Boyle, F. J., 285  
 O'Brian, J. L., 42  
 O'Brien, W., 103  
 O'Brien, T. J., 34, 211  
 O'Byrne, J. F., 108  
 O'Carroll, J. F., 85  
 Ochsner, A. J., 519  
 O'Connell, F. W., 22  
 O'Connor, D., 85  
 O'Connor, F. W., 176  
 O'Connor, J. L., 254  
 O'Connor, M. P., 225  
 O'Connor, P., 87  
 Oddie, J. W., 259  
 Odell, G. C. D., 232  
 Odling, W., 190  
 O'Donnell, R., 303  
 O'Donoghue, D. W., 324  
 O'Donoghue, I. A., 323  
 O'Donoghue, T., 79  
 O'Donovan, C., 16  
 O'Dunne, E., 17  
 O'Dwyer, R., 85  
 Oeconomus, L., 157  
 Oertel, H., 220  
 O'Farrelly, Miss A. M. W., 85  
 Ofior, R., 140  
 Ogburn, J. H., 27  
 Ogburn, W. F., 232  
 Ogden, C. J., 241  
 Ogden, H. N., 125  
 Ogden, O. W., 89  
 Ogden, R. M., 123  
 Ogg, A., 58  
 Ogg, D., 258  
 Ogg, F. A., 201  
 Ogilvie, Miss I. H., 234  
 Ogle, C., 168  
 Oglesby, H., 244  
 Ogilvie, A. G., 206  
 Ogilvie, F. G., 182  
 O'Hanlon, W., 103  
 O'Hara, F., 328  
 O'Harra, C. C., 279  
 Ohl, L. W., 270  
 Ohle, E. L., 287  
 O'Keefe, D., 22  
 O'Kelly, T., 103  
 Okey, F. M., 74  
 Okey, Miss R., 24  
 Okey, T., 48  
 Olcott, H., 136  
 Oldfather, W. A., 317  
 Oldfield, The Hon. Mr. Justice F. D., 204  
 Oldham, C., 283  
 Oldham, C. H., 85  
 Oldham, H. Y., 48  
 Olds, G. D., 9, 10  
 Olewine, J. H., 302  
 O'Leary, de L., 38  
 O'Leary, R. D., 136  
 Olin, A. S., 138  
 Olin, H. L., 76, 120  
 Oliver, D. T., 49  
 Oliver, F. W., 150, 155  
 Oliver, Miss H., 136  
 Oliver, H. R., 301  
 Olson, J. E., 201  
 Oliver, M. J., 309, 312  
 Oliver, O. A., 225  
 Oliver, Sir T., 89  
 Oliver, T. E., 317  
 Oliphant, E. H. L., 107  
 Oliphant, H., 65  
 Olmstead, A. T. E., 317, 320  
 Olmsted, E. F., 338  
 Olmsted, R. E. S., 247  
 Olver, S. H., 171  
 O'Maille, T., 103  
 O'Malley, B. L. A., 159  
 Oman, C., 188, 193  
 Oman, C. W. C., 256, 258  
 O'Meara, F., 211  
 O'Meara, T. R., 313  
 O'Neal, C. E., 80  
 O'Neill, Mrs. I. T., 69  
 O'Neill, E., 25  
 O'Neill, G., 85  
 O'Neill, J. J., 84  
 O'Neill, J. M., 201  
 Ongley, M., 341  
 Openshaw, T. H., 169  
 Ophuls, Miss L., 301  
 Ophuls, W., 300  
 Opie, E. L., 288  
 Oppenheim, L., 47  
 Oppenheimer, B. S., 235  
 Orbeck, A., 217  
 Orchard, E. H., 250  
 Ord, C., 38  
 Ord, Miss E., 142  
 O'Reilly, J. J., 183  
 O'Reilly, T. A., 236  
 Orland, Edith, 40  
 Ormerod, E. W., 60  
 Ormerod, H. A., 144  
 Ormes, M. D., 74  
 Ormsby, M. T., 152, 155  
 Orndorff, W. R., 122, 123  
 O'Roke, E. C., 135  
 Orr, J., 93, 126, 206  
 Orr, M. Y., 96  
 Orr, T. G., 137  
 Orr, V., 172  
 Orr, W. McF., 86  
 Ortega, J., 202  
 Orth, H. D., 202  
 Orth, S. P., 122  
 Ortmann, A. E., 268, 269  
 Orton, C. R., 302  
 Orton, E., jr., 77  
 Orton, G. H., 174  
 Orton, J. H., 271  
 Orton, K. J. P., 19  
 Orton, S. T., 121  
 Osborn, E. D., 138  
 Osborn, H., 75  
 Osborn, H. F., 233, 240  
 Osborn, L., 145  
 Osborn, M. A., 227  
 Osborn, T. G. B., 4  
 Osborne, F. B., 207  
 Osborne, O. T., 229  
 Osborne, P. V., 295  
 Osborne, T. G. B., 5  
 Osborne, W. A., 212  
 Osburn, R. C., 76  
 Osgood, A. T., 237  
 Osgood, C. G., 272  
 Osgood, W. F., 53  
 Osgood, W. H., 67  
 O'Shea, L. T., 293  
 O'Shea, M. V., 201  
 Osterhout, W. J. V., 36, 53  
 Osthaus, C. W. F., 30  
 O'Sullivan, A. C., 83  
 O'Sullivan, C. D., 24  
 O'Sullivan, Miss E. M., 78  
 O'Sullivan, J. M., 85  
 O'Sullivan, Mrs. M. J. D., 103  
 O'Sullivan, P. T., 78  
 Oswald, L. R., 105  
 Otis, C. H., 69  
 Otis, E. O., 211  
 Ott, O. M., 270  
 Ott, W. P., 225  
 Otten, B. J., 286  
 Otting, B. J., 285  
 Ottley, R. L., 255, 259, 260  
 Otto, M. C., 201  
 Oughton, H., 22  
 Oughterson, W. A., 225  
 O'Ruilly, T. F., 83  
 Overholser, E. L., 25, 125  
 Overholts, L. O., 392  
 Overton, J. B., 202  
 Owen, A. L., 136  
 Owen, A. S., 260  
 Owen, B. G., 245  
 Owen, D., 159  
 Owen, E. B., 286  
 Owen Mrs. E. K., 289  
 Owen, E. T., 201, 309  
 Owen, F. E., 197  
 Owen, F. S., 142, 251  
 Owen, G., 3, 12  
 Owen, Sir I., 38  
 Owen, J., 145  
 Owen, L. G., 279  
 Owen, L. V. D., 292  
 Owen, R. S., 202  
 Owen, S. G., 259  
 Owen, W. G., 217  
 Owens, F. W., 123  
 Owens, J. S., 180  
 Owens, R. B., 266  
 Oxer, F. E., 264  
 Oxnam, G. B., 198  
 Ozanne, R. C., 168  
 Pace, Very Rev. E. A., 327, 328  
 Pace, E. G., 89

# INDEX TO NAMES

- Pace, H. St. C., 234  
Packard, C. S. W., 266  
Packard, W. E., 24  
Padberg, W., 250  
Padberg, W. A., 286  
Paddock, G. F., 223  
Paddock, W., 76  
Padgett, F. W., 245  
Paetow, L. J., 23  
Page, A., 157  
Page, C. H., 115  
Page, J. D., 278  
Page, L., 229  
Page, W. H., 203  
Pageau, J. E., 312  
Pahl, P. C. H., 197  
Paige, S., 329  
Paine, A. K., 211  
Paine, E. B., 318  
Paine, H. H., 3, 126  
Paine, N. E., 34  
Painter, C. F., 210, 211  
Pakeman, J. R., 148  
Palache, C., 53  
Paletz, N. E., 316  
Palit, C. C., 8  
Palkin, J. R., 326  
Palm, F. C., 74  
Palmie, Miss A. H., 69  
Palmer, J., 271  
Palmer, J. A., 108, 280  
Palmer, A. De F., 275  
Palmer, C. E., 318  
Palmer, Capt. G. H., 179  
Palmer, Miss J. C., 271  
Palmer, J. M., 283  
Palmer, P. M., 27  
Palmer, R. C., 148  
Palmer, R. W., 45  
Palmer, S. G., 281  
Palmer, W. S., 281  
Palmer, W. W., 15  
Palsgrove, G. K., 316  
Pannett, C. A., 175  
Panton, P. N., 169  
Pappenheimer, A. M., 235  
Pâquet, A., 278  
Pâquet, L. A., 277  
Paquin, R., 278  
Pardieck, E., 289  
Paré, A., 220  
Pare, J. W., 171  
Pares, Sir B., 151, 156  
Parham, A. G., 259  
Parizeau, T., 221  
Park, E. A., 15  
Park, J., 41, 42, 87  
Park, J. B., 76  
Park, W. H., 237  
Parker, A. E., 8  
Parker, Miss C. E., 161  
Parker, E. H., 206  
Parker, F. A., 201  
Parker, G., 39, 74  
Parker, G. H., 36, 53  
Parker, G. L., 329  
Parker, H., 227, 230  
Parker, J. B., 328  
Parker, J. T., 193  
Parker, J. W., 80  
Parker, Miss M. E., 68, 69  
Parker, R., 145  
Parker, S. C., 65  
Parker, S. M., 300  
Parker, W. E., 228, 338  
Parker, W. N., 60  
Parkhurst, J. A., 63  
Parkinson, Capt. A. C. C., 181  
Parkinson, H. G., 302  
Parkinson, J., 169  
Parkinson, J. E., 182  
Parkinson, S. T., 344  
Parkinson, T. I., 235  
Parks, J. L., 31  
Parks, L. R., 302  
Parks, W. A., 309  
Parncelee, C. W., 378  
Parnenter, C. E., 64  
Parnell, F. R., 71  
Parnell, H. F., 37  
Parnell, T., 37  
Parr, H. L., 235  
Parr, S. W., 317  
Parratt, Sir W., 153  
Parrott, J. P., 104  
Parrott, T. M., 272  
Parry, R. St. J., 50  
Parshad, I. D., 131  
Parshad, S., 7  
Parshay, H. M., 247  
Parson, J. T., 125  
Parsons, A. C., 245  
Parsons, A. L., 309  
Parsons, Hon. Sir C. A., 182, 186  
Parsons, A. R., 85  
Parsons, C. L., 242  
Parsons, E. W., 282  
Parsons, F. G., 150, 166, 167  
Parsons, F. H., 334  
Parsons, G. W., 198  
Parsons, J. H., 170, 171  
Parsons, L. G., 29  
Parsons, R., 80  
Parsons, R. A., 270  
Parsons, S. R., 302, 326  
Partington, J. H., 163  
Partington, J. R., 150  
Paschall, C., 23  
Pascoe, E. H., 45  
Pasini, H. F., 70  
Pasquier, A., 221, 227  
Passant, E. J., 51  
Pasteur, W., 173  
Patch, Miss E. M., 253  
Patch, F. W., 34  
Patch, H. R., 248  
Paterson, A., 19  
Paterson, A. C., 272  
Paterson, Miss A. G., 277  
Paterson, D. R., 60  
Paterson, F. A., 233  
Paterson, Miss J. A., 160  
Paterson, J. V., 92, 94  
Paterson, J. W., 263, 264  
Paterson, R. G., 77  
Paterson, W. G. R., 108  
Paterson, W. P., 91  
Paton, D. N., 105  
Paton, H. J., 258  
Paton, J. L., 208  
Paton, L. B., 117  
Paton, L. J., 174  
Patrick, G. T. W., 120  
Patrick, W. A., 14  
Patricie, A., 267  
Pattee, F. L., 301  
Pattee, G. K., 74  
Patten, B. M., 68  
Patten, W., 115  
Patterson, A. H., 17, 61  
Patterson, D. L., 136  
Patterson, E. J., 269  
Patterson, H. J., 73  
Patterson, H. S., 235  
Patterson, Miss M. F., 23  
Patterson, M. W., 259  
Patterson, N., 169  
Patterson, S. G., 115  
Patterson, T. L., 121  
Patterson, T. S., 105, 303  
Patterson, W., 122  
Patterson, W. J., 195  
Patton, C. J., 293  
Patton, F. L., 272  
Patton, J. M., 142  
Patton, J. McD., 251  
Patton, J. McI., 319  
Patton, R. S., 328  
Paves, Miss A. C., 52  
Paul, H. G., 318  
Paul, J., 107  
Paul, N. M., 61  
Paulson, C. G., 329  
Paulson, R., 190  
Pauw, D. A. A., 304  
Paxon, F. L., 251  
Paxton, J. F., 245  
Payne, F., 313  
Payne, H., 213  
Payne, T., 198  
Payne, W. A., 62  
Payne-Smith, W. H., 259  
Payrow, H. C., 27  
Peabody, C. W., 253  
Peabody, F. W., 55  
Peachey, S. J., 209  
Peacock, A. D., 88  
Peirce, J. G., 300  
Peirce, P. S., 120  
Peake, A. S., 207  
Peake, E., 259  
Pealling, R. W., 92  
Pear, T. H., 206  
Pearce, E. C., 46, 49  
Pearce, G., 194  
Pearce, J. N., 120  
Pearl, R., 15, 253  
Pearse, A. S., 201  
Pearson, A. C., 144  
Pearson, F. A., 319  
Pearson, H. C., 232  
Pearson, J., 73  
Pearson, K., 150, 155  
Pearson, S. A., 28  
Pease, A. S., 317, 320  
Pease, F. G., 262  
Pease, M. F., 38  
Pease, R. B., 134  
Peattie, R., 341  
Peck, C. H., 234  
Peck, F. B., 90  
Peck, H. R., 316  
Peck, J. W., 174  
Pedder, A. L., 258  
Peddle, W., 284  
Peddle, J. B., 308  
Peden, Hon. J. B., 305  
Peebles, J., 271  
Peel, T., 46, 50  
Peele, R., 235  
Peers, C. R., 184  
Peeso, F. A., 234  
Peet, T. E., 206  
Pegram, G. P., 234  
Pell, Mrs. A. J., 41  
Pelletier, A., 221  
Pelletier, F., 277, 278  
Pelletier, Hon. L. P., 278  
Pellini, E. J., 237  
Pellissier, Adeline, 18  
Pelly, R. G., 179  
Peltier, L., 32  
Pelzer, L., 120  
Pember, F. W., 255, 258  
Pemberton, C. E., 198  
Pemberton, J. S. G., 88  
Pembrey, M. S., 152, 168  
Pendlebury, H. J., 168  
Pendleton, C. S., 202  
Pendleton, R. L., 8  
Pennell, F. W., 244  
Penrose, C. B., 266  
Penson, Sir T. H., 260  
Pepper, A. W., 180  
Perazzi, C., 209  
Pereival, J., 280  
Percival, M., 76  
Percy, N. M., 319  
Perham, Miss M., 292  
Perine, C. N., 264  
Peringuey, L., 58  
Perkin, A. G., 140  
Perkin, W. H., 190, 256, 258  
Perkins, B. M. N., 38  
Perkins, C., 76  
Perkins, C. E., 237  
Perkins, E. H., 195  
Perkins, Miss E. M., 69  
Perkins, H. A., 116  
Perkins, P. B., 283  
Perkins, R. G., 68  
Perkins, R. M., 121  
Perley, C. W., 334  
Permewan, W., 145  
Perron, Hon. N., 221, 278  
Perold, A. I., 304  
Perrault, A., 221, 222, 278  
Perrée, W. F., 79  
Perret, J. A., 163  
Perrett, W., 152, 155  
Perrier, P., 278  
Perrin, E. L., 278  
Perrin, H. C., 218  
Perrin, L., 221, 277  
Perrin, M. L., 33, 34, 35  
Perrins, F. C., 163  
Perrott, S. W., 145  
Perry, A. M., 198  
Perry, B., 53  
Perry, Sir E. C., 149, 168  
Perry, E. D., 232  
Perry, J., 186  
Perry, Mrs. M., 163  
Perry, R. B., 53  
Perry, W. B., 16  
Perry, W. C., 25  
Persillier-Lachapelle, E., 221  
Persom, A. M., 107  
Person, H. S., 115  
Persons, C. E., 288  
Persons, W. M., 53  
Pertsch, J. G., 125  
Petavel, J. E., 183, 308  
Peter, A., 326  
Peters, A. W., 142, 251  
Peters, C. C., 80  
Peterson, R. M., 253  
Peterson, T., 24  
Peterson, W. H., 203  
Petrie, P. T., 209  
Petrunkovitch, A., 228  
Pfeiffer, Miss L., 143  
Pfeiffer, Miss N. E., 110  
Pfund, A. H., 14  
Phear, A. G., 175



- Phelan, W. W., 245  
 Phelps, A. C., 125  
 Phelps, H. E., 276  
 Phelps, I. K., 242  
 Phelps, L. R., 157  
 Phelps, R., 86  
 Phelps, W., 259  
 Phelps, W. L., 223  
 Pherwani, S. N., 328  
 Philbrick, A. E., 66  
 Phillip, J. C., 165, 190  
 Phillip, Sir R. W., 92, 93, 94  
 Phillips, Sir O., 146  
 Phillips, W. A., 83  
 Phillimore, J. S., 105  
 Phillips, A., 229  
 Phillips, A. H., 274  
 Phillips, P. L., 334  
 Phillips, C. A., 115  
 Phillips, C. E., 197  
 Phillips, D., 13  
 Phillips, G., 305  
 Phillips, Lt.-Col. G. P. A., 155  
 Phillips, G. R., 174  
 Phillips, J., 68  
 Phillips, J. B., 31  
 Phillips, J. D., 202  
 Phillips, J. G. P., 175  
 Phillips, J. H., 225  
 Phillips, Miss M., 29  
 Phillips, M. H., 293  
 Phillips, P., 9  
 Phillips, P. C., 217  
 Phillips, R., 3  
 Phillips, R. H., 66  
 Phillips, R. W., 19  
 Phillips, T. D., 76  
 Phillips, T. E. R., 186  
 Phillips, T. G., 76  
 Phillips, W., 60  
 Phillipotts, Miss B. S., 161  
 Philpot, H. P., 155  
 Philpott, A. J., 157  
 Philpotts, R. B., 148  
 Phipps, C., 34, 211  
 Piccoli, R., 247  
 Piché, G. C., 278  
 Pickard, R. H., 162  
 Pickard-Cambridge, W. R., 257, 260  
 Picken, D. K., 214  
 Pickerrill, H. P., 87  
 Pickett, B. S., 319  
 Pickett, F. L., 276  
 Pickthorn, K. W. M., 49  
 Pidduck, F. B., 258  
 Pieggis, H. T. H., 248  
 Pieper, F., 289  
 Pier, H. B., 142  
 Pierce, C. H., 329  
 Pierce, E. B., 216  
 Pierce, F. E., 228  
 Pierce, F. W., 302  
 Pierce, G. W., 53  
 Pierce, I. E., 277  
 Pierce, N. H., 319  
 Pierce, O. H., 287  
 Pierce, S., 33  
 Pierce, T. F., 245  
 Piercy, J. W., 30  
 Pierpont, J., 228  
 Piersol, W. H., 309, 310  
 Pierson, W. W., 61  
 Pietenpol, W. B., 268  
 Pietsch, K., 63  
 Piexotto, Miss J. B., 24  
 Pigon, A. C., 48  
 Pike, F. H., 234  
 Pike, J. L., 92  
 Pilgrim, G. E., 45  
 Pilling, A., 58  
 Pilon, H., 222  
 Pinches, T. G., 155  
 Pinchot, G., 229  
 Pinder, E., 88  
 Pineault, A., 220  
 Pinkerton, K. H., 60  
 Pintner, R., 76  
 Piper, E. F., 120  
 Piper, H. H., 211  
 Pipes, Miss S. F., 100  
 Pippin, B. N., 288  
 Pirie, G. R., 174  
 Pirie, J. W., 105  
 Pirrie, Lord, 146  
 Pirsson, L. V., 228  
 Pitcher, A. D., 68  
 Pitkin, W. B., 234  
 Pitman, Miss A. M., 202  
 Pitman, F. W., 228  
 Pitman, H., 38  
 Pitt, C. H., 29  
 Pitts, A. T., 174  
 Pitzman, M., 288  
 Pla, J., 157  
 Place, E. H., 55  
 Plarr, V. G., 167  
 Plass, E. D., 15  
 Platner, J. W., 55, 57  
 Platner, S. B., 68  
 Platt, J. A., 150, 155  
 Platt, Miss K. A., 81  
 Platt, Miss M. S., 117  
 Plaugh, H. H., 10  
 Playfair, E., 172  
 Playfair, H. J. M., 172  
 Plehn, C. C., 24  
 Plitt, C. C., 17  
 Plowe, J., 193  
 Plowman, A. B., 78  
 Plowman, H., 191  
 Plum, H. G., 120  
 Plumb, C. S., 76  
 Plumer, Gen. Sir H. C. O., 321  
 Plummer, C., 259  
 Plummer, E. M., 211  
 Plummer, H. C., 83  
 Plummer, W. W., 42  
 Plymouth, The Rt. Hon. the Earl of, 59  
 Poate, H. R. G., 306  
 Pocock, R. L., 187  
 Pocock, R. W., 182  
 Poetker, A. H., 286  
 Poffenberger, A. T., jr. 234  
 Pogue, J. E., 331  
 Pohlman, A. G., 286  
 Porier, J., 221  
 Polack, J. 38  
 Polasek, A., 66  
 Pollard, A., 165  
 Pollard, A. F., 150, 155, 258  
 Pollard, A. W., 150, 177  
 Pollard, C. W., 142, 251  
 Pollitt, A. W., 144  
 Pollitt, G. P., 169  
 Pollock, J. A., 306  
 Pomeroy, J. N., 319  
 Pond, G. G., 300, 302  
 Pond, M. A., 125  
 Ponsonby, P., 280  
 Pontypridd, The Rt. Hon. Lord, 59  
 Pool, E. H., 235  
 Pool, R. J., 142  
 Poole, R. L., 256  
 Poole, H. H., 83  
 Poole, J. P., 135  
 Poole, R. L., 255, 258  
 Poole, W. B., 5  
 Pooley, E. H., 163  
 Pooley, G. H., 293  
 Poor, C. L., 233  
 Poor, J. M., 115  
 Pope, A., 54  
 Pope, F. G., 151  
 Pope, G. H., 40  
 Pope, J. V. S., 83  
 Pope, P. R., 123  
 Pope, R. O. M., 261  
 Pope, Sir W. J., 47, 190  
 Pope, W. L., 218  
 Popham, A. E., 178  
 Popp, H. E., 316  
 Popper, W., 23  
 Popplewell, W. C., 209  
 Port, F. J., 149  
 Port, T. H., 248  
 Porter, A. K., 230  
 Porter, A. T., 155  
 Porter, A. W., 152, 155  
 Porter, C., 173  
 Porter, C. A., 54  
 Porter, C. W., 25  
 Porter, E., 250  
 Porter, E. L., 68  
 Porter, F. C., 229  
 Porter, F. M., 196, 197  
 Porter, J. B., 219  
 Porter, J. P., 343  
 Porter, K. H., 120  
 Porter, R. C., 28  
 Porter, W., 13  
 Porter, W. H., 78  
 Porter, W. T., 54  
 Portland, Duke of, 248  
 Portway, D., 51  
 Post, C. R., 54  
 Postgate, J. P., 144  
 Postlethwaite, W. W., 74  
 Pottenger, F. M., 197  
 Potter, A. K., 275  
 Potter, B. E., 170  
 Potter, F. F., 276  
 Potter, F. H., 120  
 Potter, G. F., 203  
 Potter, J. L., 85  
 Potter, M. C., 89  
 Potter, W. A., 29, 311  
 Potter, W. H., 54  
 Potts, A. E., 291  
 Potts, F. A., 49  
 Pouliot, A., 277  
 Poulton, B., 4  
 Poulton, E. B., 256, 260  
 Pound, Miss L., 143  
 Pound, R., 55  
 Powell, F. G., 309, 312  
 Powell, F. M., 199  
 Powell, J. U., 259  
 Powell, Miss M. E., 206, 208  
 Powell, N. A., 310  
 Powell, P. H., 67  
 Powell, T. R., 255  
 Power, D'Arcy, 166  
 Power, M., 103  
 Power, P., 78  
 Power, R., 35  
 Powers, G. F., 15  
 Poynter, C. W. M., 141  
 Poynton, A. B., 257  
 Poynton, F. J., 171, 174  
 Pracher, J., 324  
 Praeger, R. L., 87  
 Prain, Lt.-Col. Sir D., 184, 194, 195  
 Pratt, F. S. P., 343  
 Pratt, H. S., 73  
 Pratt, J. B., 341  
 Pratt, J. H., 61  
 Pratt, Col. J. J., 176  
 Pratt, Lt.-Col., 172  
 Pratt, W. S., 117  
 Pravina, R., 223  
 Pray, J. S., 55  
 Preece, C. T., 28  
 Prentice, D. B., 90  
 Prentice, W. K., 272  
 Prentiss, H. J., 121  
 Prescott, F. C., 123  
 Prescott, H. W., 63  
 Prescott, J., 209  
 Press, A., 25  
 Prestige, G. L., 258  
 Preston, A. W., 281  
 Preston, C. H., 207  
 Preston, H. H., 249  
 Preston, J. R., 76  
 Preston, S., 163  
 Prettyman, V., 232  
 Preyer, C. A., 188  
 Price, C., 23  
 Price, G. C., 300  
 Price, G. H., 225  
 Price, H. T., 269  
 Price, H. W., 310  
 Price, I. B., 63  
 Price, J. R., 202  
 Price, L. L., 256  
 Price, L. L. F. R., 257  
 Price, L. T., 284  
 Prichard, H. A., 259  
 Pritchard, R. S., 302  
 Prickard, A. O., 258  
 Prideaux, W. R. B., 155  
 Priebach, R. C., 150, 155  
 Priest, G. M., 272  
 Priest, H. J., 37  
 Priestly, H. I., 23  
 Priestly, H. J., 37  
 Priestly, J. H., 140  
 Primrose, A., 310  
 Prince, J. D., 232  
 Prince, J. E., 278  
 Pring, G. H., 289  
 Pring, J. N., 206  
 Pringle, H., 83, 86  
 Pringle, J., 182  
 Pringle, J. J., 173  
 Pringle, J. N., 312  
 Pringle, W. H., 159  
 Prior, E. S., 48  
 Prior, G. T., 178  
 Pritchett, H. S., 243  
 Pritt, D. N., 159  
 Probert, F. H., 25  
 Probine, L. H., 318  
 Probst, Carrie M., 18  
 Probyn-Williams, R. J., 169  
 Proctor, C. A., 115  
 Proctor, C. M., 211  
 Proctor, W. M., 299  
 Profett, W. J., 2  
 Propps, D. H., 142  
 Proserpio, L., 210  
 Prothero, G. W., 256  
 Proudman, S., 144  
 Prout, Lt.-Col. W. T., 147  
 Prouty, W. F., 61  
 Provin, H. H., 270  
 Prucha, M. J., 319  
 Pryce, F. N., 178

# INDEX TO NAMES

- Pryor, J. C., 326  
Pugh, W. J., 3  
Pugsley, Hon. W., 101  
Pullan, L., 259  
Pulleine, Major. R. H., 5  
Pullen, M. W., 15  
Pullenayegum, F. A., 74  
Pulley, W. J., 237  
Pulling, A. V. S., 102  
Pumpelly, L., 123  
Punnett, R. C., 47  
Pupin, M. I., 235  
Purcell, J. J., 309  
Purcell, P. F., 85  
Purcell, W. F., 58  
Purchon, W. S., 293  
Purington, Miss F., 297  
Purser, F. C., 86  
Purser, J., 165  
Purser, J. W., 162  
Purser, L. C., 82  
Purslow, C. E., 29  
Purton, A. B., 329  
Purvis, J. E., 47  
Putman, J. W., 42  
Putnam, Miss B. T., 297  
Putnam, G. E., 283  
Putnam, H., 334  
Putnam, T. M., 23  
Putzki, P. S., 326  
Pycraft, W. P., 178  
Pye, D. R., 51  
Pye, J. P., 103  
Pyle, L., 237  
Pym, W. St. J., 49  
Pyman, F. L., 209  
Pyre, J. F., 201  
Pyrts, O., 59  
Qadir, S. A., 133  
Quackenboss, A., 54  
Quads, R., 44  
Quarles, J. T., 123  
Quasim, M., 44  
Quale, H. J., 24  
Queen, H. M., 176  
Queen, S. A., 18  
Quennell, S. M., 172  
Queva, A., 221  
Quick, J. G., 268  
Quiggin, E. C., 48, 49  
Quiller-Couch, Sir A. T., 48  
Quimby, C. E., 237  
Quinlan, W. P., 250  
Quinton, A. D., 222  
Quinton, J., 157  
Quraishi, F. F., 295  
Raaf, N. R. K., 205  
Raber, B. F., 25  
Race, C. E., 97  
Rackham, B., 179  
Rackham, H., 50  
Radcliffe, J., 209  
Radcliffe, L. G., 209  
Rader, J. L., 245  
Radhakishan, M., 132  
Radhakrishnan, S., 224  
Radia, M., 26  
Radin, P., 23  
Radley, P. E., 190  
Raff, A., 157  
Rafter, J., 38  
Rahilly, A. J., 78  
Rahman, A., 81  
Rahman, M. A., 280  
Rai, G., 132, 133  
Rai, H., 131  
Rai, K., 133  
Rai, Manmohan, 5  
Ralford, L. C., 120  
Raimondi, A., 198  
Rainy, H., 93  
Raison, Miss C. A., 160  
Rait, R. S., 105  
Raj, B. Sundra, 204  
Raj, M., 133  
Raj, R. B. Hem, 296  
Raj, Hem, 133  
Rajehman, L. W., 169  
Rakshit, A. C., 133  
Raleigh, Baron, 46  
Raleigh, Sir T., 258  
Raleigh, Sir W. A., 256, 257  
Ram, B., 263  
Ram, G., 299  
Ram, K., 81  
Ram, L. T., 127  
Ram, R., 132  
Rambo, Miss S. M., 247  
Ramey, A. R., 245  
Raman, C. V., 43  
Ramsay, A. M., 105  
Ramsay, Miss A. M., 193  
Ramsay, J., 107  
Ramsay, W., 291  
Ramsbottom, A., 207  
Ramsbottom, J., 159, 178  
Ramsden, W., 145, 260  
Ramsden, W. C., 83  
Ramsey, A. S., 46, 50  
Ramsey, J. W., 276  
Ramsey, R. A., 166  
Ramsey, R. R., 30  
Ramsower, H. C., 76  
Rand, E. K., 23, 53  
Rand, Miss G., 41  
Rand, H. W., 54  
Randall, F. H., 121  
Randall, M., 25  
Randall, O. E., 275  
Randolph, B. M., 326  
Randolph, C. B., 343  
Randolph, R. L., 15  
Randon, L. A., 321  
Raney, M. L., 14, 15  
Rankin, A., 97  
Rankin, E. M., 90  
Rankin, F. H., 319  
Rankin, J. O., 142  
Rankin, J. S., 107  
Rankin, W. H., 124  
Rankin, W. M., 274  
Rankin, W. W., 61  
Rankine, A. O., 165  
Rankine, J., 91  
Ranking, G. S. A., 256  
Ranner, S. C., 171, 172  
Ransom, F., 175  
Ransom, J. H., 224  
Ransom, W. R., 211  
Ransome, F. L., 329  
Ranum, A., 123  
Rao, C. R. N., 224  
Rao, M. G. S., 224  
Rao, M. V., 45  
Rao, N. S. Subba, 224  
Raper, C. L., 61  
Raper, H. S., 140  
Rapp, I. M., 245  
Rapson, E. J., 48  
Raschen, J. F. L., 263, 269  
Rasmussen, F., 302  
Rasor, S. E., 76  
Rassieur, L., 286  
Rastall, R. H., 50  
Rathbone, Miss E., 144  
Rathbun, H. A., 286  
Ratcliff, S. C., 183  
Rathdonnell, Rt. Hon. Lord, 86  
Rathjorn, E. F., 253  
Rau, S. S. R., 45  
Raub, W. L., 102  
Rautenstrach, W., 235  
Raven, C. E., 51  
Ravenel, W. de C., 331  
Raw, F., 28  
Rawles, W. A., 30  
Rawling, L. B., 166  
Rawlinson, A. E. J., 269  
Rawlinson, J. F. P., 46, 160  
Rawson, G. H., 88  
Rawson, J. N., 291  
Rawson, Capt. R. I., 38  
Rawson, S. W., 258  
Ray, F. A., 77  
Ray, H. C., 268, 269  
Ray, H. N., 292  
Ray, J. H., 207  
Ray, Sir P. C., 43, 45  
Raycroft, J. E., 274  
Rayleigh, Lord, 165  
Raymer, G. S., 54, 55  
Raymond, E. N., 136  
Raymond, P. E., 54  
Raymond, R. M., 235  
Raymond, W. G., 121  
Raymond, W. J., 23  
Raymond, W. T., 102  
Rayner, D. C., 39  
Rayner, F. E., 163  
Rayner, F. H., 183  
Rayner, H. H., 207  
Read, A. A., 60  
Read, Alice M., 149  
Read, C., 63, 155  
Read, C. F., 320  
Read, Sir H., 178, 184  
Read, H. H., 182  
Read, J., 306  
Read, J. B., 202, 318  
Read, M. S., 114  
Read, W. I. D. S., 259  
Reade, W. H. N., 260  
Readhimer, J. E., 319  
Reading, R. F., 306  
Reardon, N. D., 250  
Reaves, S. W., 215  
Reay, Rt. Hon. the Lord, 154, 187  
Rebec, G., 99  
Rébora, P., 144  
Reek, J. A., 246  
Recknagel, A. B., 124  
Record, S. J., 229  
Records, E., 281  
Reddaway, F. W., 49  
Reddaway, W. F., 51  
Reddick, D., 124  
Reddie, A. F., 99  
Reed, A. A., 141, 143  
Reed, Miss A. J., 272  
Reed, A. W., 152, 156  
Reed, D. B., 13  
Reed, E. B., 228  
Reed, F. O., 202  
Reed, G. A., 142  
Reed, H., 246  
Reed, H. D., 123, 124  
Reed, H. L., 123  
Reed, H. S., 24  
Reed, J. H., 111  
Reed, L. J., 15  
Reed, Miss M., 175  
Reed, P., 121  
Reed, T., 168  
Reed, T. H., 23  
Reed, T. B., 215  
Reed, W. H., 211  
Reeder, C. W., 78  
Reeder, J. D., 17  
Reeds, C. A., 239  
Reedy, J. H., 318  
Rees, B. J., 341  
Rees, J. F., 92  
Rees, R. W., 124  
Rees, T., 20  
Reese, Miss E., 143  
Reese, R. G., 123  
Reeves, E. A., 187  
Reeves, H. P., 80  
Reeves, J. W., 197  
Reeves, W. P., 326  
Reeves, Hon. W. P., 152  
Regan, C. T., 175  
Regan, F. P., 24  
Reichel, Sir H. R., 19, 59  
Reichelderfer, L. H., 326  
Reid, C., 221  
Reid, D. G., 49  
Reid, E. B., 334  
Reid, E. W., 284  
Reid, G. A., 222  
Reid, G. W., 88  
Reid, H. F., 14  
Reid, H. M. B., 106  
Reid, J. S., 48, 193  
Reid, R. W., 2  
Reider, J., 265  
Reiley, Miss K. C., 233  
Reilly, C. H., 144  
Reilly, F. X., 250  
Reilly, H. E., 219  
Reilly, J. F., 120  
Reimer, Miss M., 234  
Reinecke, O. S. H., 304  
Reinink, H., 272  
Reinke, E. E., 225  
Reis, F., 211  
Reisner, G. A., 53  
Reitell, C. P., 263  
Reiter, H. R., 27  
Reitz, S. C. B., 241  
Relph, A. E., 171  
Relph, H. J., 171  
Remsburg, C. G., 336  
Remy, A. F. J., 232  
Renault, G. E., 144  
Rendall, F. G., 177  
Rendle, A. B., 178, 185  
Rendtorff, K. G., 299  
Rennie, E. H., 4, 5  
Rennie, E. J. C., 213  
Rennie, J., 2  
Rennie, W., 105  
Renshaw, R. R., 55  
Rentoul, J. L., 214  
Requardt, W. W., 16  
Resides, G. H., 303  
Resiner, E. H., 233  
Ressor, C. E., 331  
Rettger, E. W., 125  
Rettger, L. F., 229  
Retzer, R., 269  
Reuter, E. B., 18  
Revell, D. G., 97  
Rex, Sir R. H., 188  
Reyburn, H. A., 53  
Reyna, J. E., 125  
Reynolds, B. D., 158  
Reynolds, E. S., 207

- Reynolds, G. F., 31  
 Reynolds, H. McL., 228  
 Reynolds, J. B., 27  
 Reynolds, J. E., 190  
 Reynolds, Miss M., 63  
 Reynolds, S. H., 39, 40  
 Reynolds, W., 66  
 Rhead, E. L., 209  
 Rheanne, Z., 220  
 Rhoades, E. L., 142  
 Rhodes, F. A., 270  
 Rhodes, Miss H., 99  
 Rhodes, R. L., 110  
 Rhoton, A., 302  
 Rhys, T., 20  
 Ricard, J. I., 290  
 Rice, A. H., 33, 35  
 Rice, C. H., 131  
 Rice, E. L., 78, 80  
 Rice, F. E., 125  
 Rice, G. B., 34  
 Rice, H., 211  
 Rice, H. A., 137  
 Rice, H. G., 98  
 Rice, J., 145  
 Rice, J. A., 143  
 Rice, J. E., 124  
 Rice, J. P., 341  
 Rice, K. S., 343  
 Rice, L. P., 216  
 Rice, M. E., 138  
 Rice, R. A., 247, 334  
 Rice, R. C., 329  
 Rice, R. F., 138  
 Rice, S. O., 136  
 Rice, W., 210, 211  
 Rice, W. N., 216  
 Richards, C. R., 317, 318  
 Richards, Miss E., 248  
 Richards, E. H., 282  
 Richards, G., 203  
 Richards, G. C., 255, 257, 261  
 Richards, H. C., 37  
 Richards, Sir H. E., 255, 258  
 Richards, H. M., 233  
 Richards, H. S., 203  
 Richards, J. R., 202  
 Richards, J. W., 27  
 Richards, P. A. E., 175, 193  
 Richards, P. B., 129  
 Richards, P. E., 133  
 Richards, R. H., 134  
 Richards, T. W., 53  
 Richardson, A. E., 150, 155  
 Richardson, A. F. V., 213  
 Richardson, A. G. G., 77  
 Richardson, A. H., 166  
 Richardson, A. R., 165  
 Richardson, Miss A. W., 161  
 Richardson, C. W., 326  
 Richardson, E. C., 274  
 Richardson, E. E., 325  
 Richardson, E. H., 15  
 Richardson, J. P., 115  
 Richardson, L., 322  
 Richardson, L. B., 115  
 Richardson, L. J., 23  
 Richardson, N. F., 231  
 Richardson, O. W., 151, 157  
 Richardson, R. G. D., 275  
 Richardson, T. H., 294  
 Richardson, W. D., 242  
 Richardson, W. W., 197  
 Richeson, J. J., 11, 12  
 Richey, J. E., 182  
 Richtmyer, F. K., 123  
 Richmond, A. P., 115  
 Richmond, C. W., 331  
 Richmond and Gordon, His Grace the Duke of, 1  
 Richmond, H. W., 47, 49  
 Richmond, Myrtle L., 262  
 Richmond, O. L., 91  
 Ricketts, P. C., 315  
 Riddell, Miss A. R., 41  
 Riddell, J. R., 106  
 Riddle, L. M., 197  
 Riddle, L. W., 54  
 Riddle, O., 72  
 Ridenour, H. L., 302  
 Rider, G. L., 253  
 Rider, Mrs. G. T., 334  
 Rider, P. R., 287  
 Ridgeway, C. B., 135  
 Ridgely, R. H., 11  
 Ridington, J., 322  
 Ridgway, H., 331  
 Ridgway, W., 48  
 Rieber, C. H., 23  
 Riegelhuth, Miss K., 231  
 Riely, C., 16  
 Riely, J. W., 246  
 Ries, H., 122  
 Riet, B. v. d., 304  
 Rietz, H. L., 120  
 Rigdon, R. L., 301  
 Riggs, J. M., 183  
 Rigge, W. F., 250, 251  
 Riggles, J. L., 326  
 Riggs, E. S., 67  
 Riggs, R. B., 116  
 Rightmire, G. W., 77  
 Rigling, A., 266  
 Riley, B. M., 250  
 Riley, The Most Rev. C. O., 263  
 Riley, F. R., 87  
 Riley, H. W., 124  
 Riley, L. A., 246  
 Riley, N. D., 178  
 Riley, W., 271  
 Rimes, A. W., 217  
 Rimmer, E. J., 145  
 Rion, P., 222  
 Ripley, W. Z., 53  
 Ripper, W., 292, 293  
 Rippere, J. B., 11  
 Rishworth, F. S., 103  
 Ristine, F. H., 71  
 Ritchie, A. C., 17  
 Ritchie, E., 112  
 Ritchie, Miss F. M., 29  
 Ritchie, G. Mary, 262  
 Ritchie, J., 92, 94  
 Ritchie, R. L. G., 29  
 Ritchie, S. G., 113  
 Ritchie, W., 58  
 Ritchie, W. T., 93  
 Ritenour, J. P., 302  
 Ritson, F. W., 88  
 Rittenhouse, C. F., 34, 35  
 Rittenhouse, S., 197  
 Ritter, W. E., 23  
 Rivard, A., 278  
 Rivet, A., 220  
 Rivett, A. C. D., 213  
 Rivillé-Rensch, Miss E., 297  
 Rix, R., 250  
 Rixford, E., 300  
 Rixon, F. W., 39  
 Rizer, H. C., 329  
 Roach, W. A., 283  
 Roadhouse, C. L., 24  
 Roaf, H. E., 152, 173  
 Roark, L., 31  
 Robb, B. B., 124  
 Robb, C. A., 97  
 Robb, T. B., 245  
 Robb, W. L., 315  
 Robb, W. S., 286  
 Robbins, A. H., 287  
 Robbins, C. A., 141  
 Robbins, C. L., 121  
 Robbins, E. C., 99  
 Robbins, E. Y., 272  
 Robbins, G. H., 203  
 Robbins, J. H., 180  
 Robert, A., 277  
 Robert, O. T., 247  
 Roberts, 272  
 Roberts, A. A., 272  
 Roberts, A. R., 219  
 Roberts, C., 207  
 Roberts, D. L., 207  
 Roberts, F. I., 49  
 Robertz, H. A., 138  
 Roberts, I. P., 124  
 Roberts, J. C., 108  
 Roberts, Miss J. E., 122  
 Roberts, J. E. H., 166  
 Roberts, J. L., 143  
 Roberts, L. D., 108  
 Roberts, Miss L. J., 65  
 Roberts, P. E., 260  
 Roberts, R. A., 19  
 Roberts, R. H., 203  
 Roberts, S. C., 277  
 Roberts, S. E., 137  
 Roberts, T. S., 3  
 Roberts, W. D., 129  
 Roberts, W. F., 339  
 Roberts, W. H., 145  
 Roberts, W. J., 60  
 Roberts, W. R., 140  
 Roberts, W. R. W., 82, 87  
 Roberts, W. S., 129  
 Robertson, A., 39, 40  
 Robertson, A. D., 195  
 Robertson, A. T., 199  
 Robertson, C. G., 28, 258, 259  
 Robertson, D., 39, 40  
 Robertson, D. A., 51, 62, 63  
 Robertson, D. S., 50  
 Robertson, E., 92  
 Robertson, E. H., 294  
 Robertson, J., 29  
 Robertson, J. C., 309, 311  
 Robertson, J. G., 150, 155, 160  
 Robertson, L. F., 322  
 Robertson, Miss M. W. U., 2  
 Robertson, R. A., 284  
 Robertson, T. B., 309  
 Robertson, His Hon. W. C. F., 321  
 Robertson, W. G. A., 94  
 Robertson, W. L., 234  
 Robertson, W. R. B., 137  
 Robertson, W. S., 318  
 Robertson, W. S. A., 45  
 Robey, W. H., jr., 54  
 Robins, H. B., 282  
 Robinson, G. D., 172  
 Robinson, A., 89, 92  
 Robinson, The Ven. A. G., 46  
 Robinson, Miss A. R., 76  
 Robinson, B. L., 53, 56  
 Robinson, C., 273  
 Robinson, C. W., 302  
 Robinson, D. M., 14  
 Robinson, D. N., 80  
 Robinson, E., 19, 241  
 Robinson, E. E., 228, 300  
 Robinson, E. M., 252  
 Robinson, E. S. G., 178  
 Robinson, Miss F. L., 199  
 Robinson, F. N., 53  
 Robinson, G. C., 288  
 Robinson, G. E., 322  
 Robinson, G. H., 15, 26  
 Robinson, G. W., 19  
 Robinson, H., 206  
 Robinson, H. M., 212  
 Robinson, H. McA., 90  
 Robinson, J. B., 17  
 Robinson, K. A., 115  
 Robinson, L. N., 25  
 Robinson, M. H., 318  
 Robinson, P., 328  
 Robinson, P. E., 274  
 Robinson, R., 145  
 Robinson, T. R., 209  
 Robinson, W., 207, 248  
 Robinson, W. A., 115  
 Robinson, W. F., 67  
 Robinson, W. J., 108, 196  
 Robison, W. F., 286  
 Robson, G. C., 178  
 Robson, S., 126  
 Robson, W. G., 284  
 Roche, Hon. W. J., 195  
 Rochester, De L., 42  
 Rockwell, E. H., 211  
 Rockwell, Miss L., 199  
 Rockwell, W. W., 239  
 Rockwood, E. W., 120, 121  
 Rode, R. B., 286  
 Rodgers, F. C., 286  
 Rodgers, R., 180  
 Rodway, B. J., 207  
 Roe, F. W., 202  
 Roe, J. H., 326  
 Roebuck, A., 231  
 Roebuck, J. R., 202  
 Roedder, E. C. L. C., 201  
 Roever, H. W., 287  
 Roger, H. S., 90  
 Rogers, A., 76  
 Rogers, A. F., 300  
 Rogers, A. K., 228  
 Rogers, Agnes L., 18  
 Rogers, C. B., 71  
 Rogers, C. C., 320  
 Rogers, C. E., 116  
 Rogers, C. F., 157  
 Rogers, C. G., 249  
 Rogers, D. C., 247  
 Rogers, E. A., 121  
 Rogers, F. J., 300  
 Rogers, F. S., 125  
 Rogers, H. W., 229  
 Rogers, J., 123  
 Rogers, J. D., 327  
 Rogers, J. S. Y., 284  
 Rogers, L. J., 309



# INDEX TO NAMES

- Rogers, M. H., 211  
 Rogers, O. F., 229  
 Rogers, R. A. F., 83  
 Rogers, Lieut.-Col. R. S., 4, 5  
 Rogers, R. W., 273  
 Rogers, S. S., 24  
 Rogers, T. B., 238  
 Rogerson, H., 168  
 Rogoff, J. M., 68  
 Rohde, A., 269  
 Rohrlack, O. H., 320  
 Rohwer, S. A., 338  
 Rokahr, Miss M., 142  
 Rolfe, R. A., 195  
 Rollins, E. B., 211  
 Rollit, Sir A. K., 147  
 Rollo, J. C., 224  
 Rolls, The Master of the, 183  
 Romer, M. L., 46  
 Rood, F. S., 171  
 Rood, J. T., 318  
 Rooke, Miss M., 247  
 Rooney, W. J., 264  
 Roorbach, G. B., 55  
 Root, A. S., 248  
 Root, E., 322  
 Root, Hon. E., 71  
 Root, R. K., 272  
 Root, W. T., 201  
 Root, W. T., jr., 299  
 Rootham, C. B., 50  
 Ropes, J. H., 55  
 Roscoe, R., 149  
 Rose, B. T., 29  
 Rose, Miss F., 124  
 Rose, F. A., 166  
 Rose, H. J., 3  
 Rose, J. H., 17, 48  
 Rose, J. N., 331  
 Rose, Mrs. M. D. S., 233  
 Rosebery, Earl of, and Midlothian, 104, 147, 149  
 Rosebrugh, T. R., 310  
 Roselli, A., 272  
 Rosenau, M. J., 54  
 Rosenberg, C. J., 164  
 Rosenberg, L. C., 99  
 Rosenfold, J., 198  
 Rosenhamppf, A. H., 237  
 Rosenhain, W., 183  
 Rosenheim, O., 151, 157  
 Rosenthal, L. J., 16  
 Rosenthal, M., 16  
 Roseveare, W. N., 267  
 Rosher, A. B., 170  
 Ross, A. D., 264  
 Ross, Sir D., 151  
 Ross, E. A., 201  
 Ross, G. A. J., 239  
 Ross, G. R. T., 279  
 Ross, H. E., 124  
 Ross, J. D. M., 92  
 Ross, Miss K., 277  
 Ross, Miss M., 196  
 Ross, P. A., 300  
 Ross, S. J., 225  
 Ross, W. D., 257  
 Ross, W. L., 250  
 Rosse, H., 66  
 Roth, G. B., 336  
 Rother, A. J., 286  
 Rothenstein, W., 292  
 Rothganger, H., 301  
 Rothrock, D. A., 30  
 Roughtley, T. C., 307  
 Roulston, R. B., 14  
 Rouse, B. H., 66  
 Roush, G. A., 27  
 Rousseau, A., 278  
 Rousseau, W. W., 316  
 Routh, H. V., 152, 160  
 Routhier, Sir A. B., 277  
 Rouw, R. W., 168  
 Rowan, C. J., 121  
 Rowden, F., 258  
 Rowe, A. W., 34, 35  
 Rowe, C. H., 83  
 Rowe, F. M., 209  
 Rowe, J. E., 302  
 Rowe, J. P., 217  
 Rowell, Miss E. M., 98  
 Rowili, G., 168  
 Rowland, J. M. H., 16  
 Rowland, V. C., 68  
 Rowlands, R. P., 168  
 Rowley, W. W., 122  
 Rowley, S., 31  
 Rowntree, Miss E., 336  
 Roxburgh, A. B., 169  
 Roxby, P. M., 144  
 Roy, C., 278  
 Roy, F., 278  
 Roy, J. A., 284  
 Roy, K. C., 199  
 Roy, S. C., 133  
 Royal, G., 121  
 Royce, C. H., 125  
 Royds, T., 296  
 Royer, J. E., 320  
 Rubel, C. W., 24  
 Ruche, H. A., 319  
 Rudd, R. B., 71  
 Ruddiman, E. A., 225  
 Rudge, C. K., 39  
 Rudlar, G., 150, 160  
 Rudmoss-Erown, T. D., 83  
 Rudolf, R. D., 310  
 Rudolph, C. H., 339  
 Rudra, S. K., 81  
 Rudiger, W. C., 325  
 Ruegnitz, Miss R. L., 134  
 Ruffin, S., 326  
 Ruger, H. A., 234  
 Rugg, H. O., 65  
 Ruggles, C. O., 76  
 Ruggles, E. P., 34  
 Rugh, C. E., 26  
 Ruhrah, J., 16  
 Rule, H. G., 92  
 Rum, A., 131  
 Rumwell, M. E., 301  
 Rundell, O. S., 203  
 Rundle, C., 145  
 Runge, Miss L., 143  
 Runkle, E. W., 301  
 Runner, J., 120  
 Runyan, O., 250  
 Rusby, H. H., 234, 244  
 Rushmore, F. M., 46, 50  
 Rushmore, S., 211  
 Rushton, W., 167  
 Rusk, G. M., 99  
 Rusk, G. Y., 23  
 Rusk, H., P. 319  
 Ruskbrook, W. G., 160  
 Ruskbrook-Williams, L. F., 7  
 Russ, S., 173, 194  
 Russell, E., 39  
 Russell, J. C., 142  
 Russell, A. S., 293, 294  
 Russell, Hon. G., 113  
 Russell, E. H., 322  
 Russell, E. J., 282  
 Russell, F. A., 318  
 Russell, F. L., 253  
 Russell, H. L., 202, 203  
 Russell, H. N., 274  
 Russell, J. F., 236  
 Russell, J. E., 232  
 Russell, J. W., 29, 257, 259, 260  
 Russell, L. J., 105  
 Russell, P. N., 306  
 Russell, P. T., 295  
 Russell, R., 83  
 Russell, T. G., 300  
 Russell, Mrs. T. P., 299  
 Russell, W., 94  
 Russell, W. F., 121  
 Russell, W. W., 15  
 Ruth, W. W., 319  
 Rutherford, Sir E., 47  
 Rutherford, N. C., 169  
 Rutherford, W. J., 290, 291  
 Rutt, W., 5  
 Ruttan, R. F., 219, 254  
 Ruy, J. P., 234  
 Ryan, A. H., 211  
 Ryan, C. C., 322  
 Ryan, F. W., 113  
 Ryan, Miss G. E., 134  
 Ryan, H., 85  
 Ryan, H. J., 300  
 Ryan, J., 327  
 Ryan, J. P., 281  
 Ryan, Miss M., 78  
 Ryan, W. J., 286  
 Rydberg, P. A., 244  
 Ryder, A. W., 23  
 Rye, R. A., 149  
 Ryerson, M. A., 66  
 Ryffel, J. H., 168  
 Rykoff, Miss S., 289  
 Saalbach, L., 270  
 Sabin, Miss E. E., 41  
 Sabin, F. E., 202  
 Sabin, Miss F. R., 11  
 Saby, R. S., 123  
 Sachs, A., 251  
 Sachs, E., 288  
 Sachs, P. J., 54  
 Sackett, R. L., 301  
 Sackville, J. P., 111  
 Sadler, Sir M. E., 139  
 Sadler, W., 322  
 Sadr-ud-din, M., 131  
 Saffullah, S. M., 44  
 Sage, Miss E., 31  
 Sage, E. T., 265, 269  
 Sage, W. N., 322  
 Sagenian, P. J., 180  
 Sahai, M., 132  
 Sahai, V. N., 133  
 Said, M., 131  
 Sain, K., 132  
 St. Davids, The Lord Bishop of, 134  
 St. John, C. E., 262  
 St. John, F. B., 235  
 St. John, L., 177  
 St. Laurent, L., 278  
 St. Piene, C., 220  
 Saint-Piene, W., 221  
 Sait, E. M., 233  
 Saldanha, G., 210  
 Saliers, E. A., 228  
 Salisbury, E., 183  
 Salisbury, E. J., 156, 283  
 Salisbury, R. D., 62, 63  
 Salmon, E. S., 152, 344  
 Salmon, L. M., 271  
 Salmond, F. C., 67  
 Salmond, R. W. A., 171  
 Salter, F. R., 50  
 Salter, L. S., 246  
 Salter, M. de C., 180  
 Salzer, S. M., 245  
 Salzer, Miss, F., 199  
 Salzmann, O. M., 107  
 Samad, A., 44  
 Sambon, L. W., 176  
 Sameth, Miss E., 281  
 Samiruddin, 44  
 Sammis, J. L., 203  
 Sampathkumaran, M. A., 224  
 Sampey, J. R., 199  
 Sampson, C. H., 259  
 Sampson, J., 143  
 Sampson, Miss K., 3  
 Sampson, Miss M. M., 247  
 Sampson, M. W., 122  
 Sampson, R. A., 91  
 Samuel, Rt. Hon. H., 188  
 Samuels, A., 16  
 Samuels-Lal, P., 131  
 Samut, C., 321  
 Sanborn, H. C., 225  
 Sanday, W., 255, 259  
 Sandbach, F. E., 29  
 Sandford, P., 310  
 Sandeman, L., 206  
 Sanders, H. N., 41  
 Sanders, H. W., 264  
 Sanders, J. A., 250  
 Sanders, W. T., 224  
 Sanderson, D., 124  
 Sandford, A. W., 78  
 Sandford, E. C., 343  
 Saneksar, R., 199  
 Sanford, F., 300  
 Sanford, F. W., 143  
 Sanford, R. F., 262  
 Sanford, T. F., 23  
 Sanger, F. D., 16  
 Sanjana, K. J., 27  
 Sanyal, T., 126  
 Sappington, G. R., 17  
 Sargent, W. E., 166  
 Sargent, A. J., 150, 162  
 Sargent, F., 89  
 Sargent, W., 65  
 Sarker, B., 13  
 Sarolea, C., 91  
 Sarratt, C. M., 225  
 Sasscer, E. R., 338  
 Sastrial, S. S., 205  
 Sastry, R. S., 224  
 Satterley, J., 309  
 Sathianathan, I., 295  
 Saunders, 271  
 Saunders, A. J., 205  
 Saunders, A. P., 71  
 Saunders, D. W., 312  
 Saunders, Miss E. R., 52  
 Saunders, F. A., 54  
 Saunders, L. P., 279  
 Saunders, P. W., 175  
 Saunders, S. J., 71  
 Saunders, T. B., 143  
 Saunders, T. L., 235  
 Saunders, W., 294  
 Saunion, H., 163  
 Sauvcur, A., 55  
 Savage, C. W., 249  
 Savage, D., 163  
 Savage, E. S., 124  
 Savage, H. J., 8, 41  
 Savage, T. E., 317  
 Saville, M. H., 232  
 Saville, T., 61  
 Savory, D. L., 22

- Savory, Sir J., 98  
 Sawdon, W. M., 125  
 Sawhony, A. R., 132  
 Sawyer, G. C., 232  
 Sawyer, J. P., 68  
 Sawyer, Miss M. L., 102  
 Saxelby, F. M., 162  
 Sayce, A. H., 257  
 Sayder, M. K., 276  
 Sayers, W. C. B., 155  
 Sayle, C. E., 51  
 Sayre, F. B., 55  
 Sayre, L. E., 136, 137  
 Sayre, R. H., 237  
 Sayre, W. E., 110  
 Scales, S., 172  
 Scammell, J. C., 211  
 Scarborough, H. B., 11  
 Scarborough, J. C., 197  
 Scarlett, A. J., 115  
 Schaa, D., 77  
 Schaefer, M. A., 250  
 Schafer, Sir A. E. S., 92  
 Schafer, E. G., 276  
 Schafer, J., 98, 99  
 Schafi, D. S., 270  
 Schaffner, J. H., 76  
 Schalek, A., 141  
 Schalek, A., 251  
 Schaller, W. F., 301  
 Schapiro, I., 85, 325, 334  
 Schaub, L. F., 55  
 Schauffler, R. McE., 137  
 Schealer, S. R., 27  
 Schenck, Miss E. M., 41  
 Scherck, H. J., 286  
 Scherer, N. W., 76  
 Schermerhorn, H. B., 225  
 Scheuber, T., 252  
 Schench, F. C., 217  
 Schevill, F., 63  
 Schieff, R., 23  
 Schieffer, F. J., 251  
 Schiller, F. C. S., 259  
 Schilling, H. K., 23  
 Schindler, C., 37  
 Schinz, A., 9, 132, 247  
 Schlapp, O., 92  
 Sclater, W. L., 192  
 Schlatter, E. B., 201  
 Schlatter, F. E., 202  
 Schleiter, H. G., 269  
 Schlesinger, A. M., 120  
 Schlesinger, E. G., 168  
 Schlesinger, F., 62, 268, 269, 270  
 Schlesinger, H. I., 63  
 Schlich, Sir W., 256  
 Schloemer, C. C., 238  
 Schlomovito, S., 202  
 Schmidt, A. F. W., 82, 325, 327  
 Schmidt, C. C., 110  
 Schmidt, Miss C. L., 201  
 Schmidt, C. L. A., 23  
 Schmidt, F. G. G., 99  
 Schmidt, G. F. W., 246  
 Schmidt, N., 122  
 Schmidt, W. A., 245  
 Schmidt, W. L., 331  
 Schmitt, B. E., 69  
 Schmitz, N., 302  
 Schnebly, M. I., 326  
 Schneck, H. W., 125  
 Schneider, E. C., 216  
 Schneider, J., 328  
 Schoder, E. W., 125  
 Schoell, F. L., 64  
 Schoemaker, D. M., 286  
 Schoenfeld, H., 325  
 Schoff, W. H., 267  
 Schofield, J. A., 306  
 Schofield, W. H., 53  
 Scholderer, J. V., 177  
 Scholes, G. E., 145  
 Scholle, W., 2  
 Schook, D., 66  
 Schorland, E., 109  
 Schott, G. A., 3  
 Schramek, J. M., 251  
 Schramm, E. F., 143  
 Schramm, J. R., 124  
 Schreiber, W. E., 217  
 Schriber, C. F., 228  
 Schrock, A. H., 99  
 Schryver, S. B., 165  
 Schuchert, C., 228, 230  
 Schuerman, W. H., 225  
 Schuette, H. A., 202  
 Schulte, E. D. N., 315  
 Schulte, H. Von W., 251  
 Schulte, T. J., 286  
 Schultz, L., 320  
 Schultz, W. F., 318  
 Schultz, W. H., 326, 327  
 Schultze, O. H., 123  
 Schulz, A. J., 4  
 Schulz, R. E., 197  
 Schulze, H. H. L., 233  
 Schumacher, H., 327  
 Schumb, 272  
 Schunk, O. H., 336  
 Schurman, J. G., 122  
 Schuster, Sir A., 147  
 Schuster, E. H. J., 258  
 Schuster, F. V., 154  
 Schutze, M., 63  
 Schuyler, R. L., 232  
 Schwab, S. I., 288  
 Schwalm, F. D., 217  
 Schwander, Miss E. N., 136  
 Schwartz, F. W., 316  
 Schwartz, C. E., 319  
 Schwartz, H. B., 289  
 Schwartz, W., 289  
 Schwarz, E. A., 87, 332, 338  
 Schwarz, E. H. S., 109  
 Schwarz, H., 288  
 Schwegler, R. A., 138  
 Schweinitz, P. B. de, 27  
 Seicluna, H. P., 321  
 Scoon, R. M., 273  
 Scotchard, G., 10  
 Scott, A., 145, 190  
 Scott, A. A., 119  
 Scott, A. C., 245  
 Scott, A. J., 197  
 Scott, A. P., 64  
 Scott, A. W., 11, 55, 134  
 Scott, C. A., 132, 225, 297  
 Scott, Miss C. A., 41  
 Scott, C. R., 228  
 Scott, D. C., 254  
 Scott, E., 76, 212  
 Scott, E. C., 29, 235  
 Scott, E. F., 239  
 Scott, F. W., 318  
 Scott, Miss G. K., 302  
 Scott, H., 52  
 Scott, J. E., 49  
 Scott, J. H., 120  
 Scott, J. W., 105, 135  
 Scott, Miss M. A., 161  
 Scott, M. H., 203  
 Scott, P. L., 312  
 Scott, R., 32  
 Scott, R. D., 143  
 Scott, R. F., 46, 50  
 Scott, R. J., 67  
 Scott, S., 166  
 Scott, S. G., 169  
 Scott, T. G., 174  
 Scott, V. E., 231  
 Scott, W., 31, 137, 294  
 Scott, W. A., 40, 85, 201  
 Scott, W. B., 266, 274  
 Scott, W. R., 105  
 Scott, H. W. T., 277  
 Scourfield, D. J., 190  
 Scoville, H. T., 318  
 Scoville, G. P., 125  
 Scowcroft, W., 207  
 Scribner, H. S., 268  
 Scroggs, J. W., 245  
 Scudder, C. L., 54  
 Scudder, N. P., 332  
 Scullard, H. H., 158, 159  
 Scurfield, H., 293  
 Scurr, C. N., 88  
 Scutt, C. A., 212  
 Seaborn, E., 196  
 Seager, H. R., 233  
 Seal, B. N., 43  
 Seares, F. H., 262  
 Searle, G. F. C., 47  
 Seares, Miss H. M., 297  
 Seares, S., 332  
 Sears, C. E., 99  
 Sears, G. W., 281  
 Sears, H. J., 99  
 Sears, J. B., 300  
 Sears, J. E., 183  
 Sears, M. L., 281  
 Seashore, C. E., 120  
 Seaver, F. J., 244  
 Seavey, W. A., 31  
 Seay, E. T., 225  
 Sebastian, L. B., 161  
 Secord, G. L., 66  
 Secord, Grace W., 66  
 Seddon, H. R., 213  
 Sedgfield, W. J., 206  
 Sedgwick, A. E., 197  
 Sedgewick, G. G., 322  
 See, Capt. T. J. J., 210  
 Seegar, J. K. B. E., 17  
 Seelig, M. G., 286  
 Seely, F. B., 318  
 Seery, F. J., 125  
 Segal, L., 29  
 Segall, J., 38  
 Segall, J. B., 253  
 Segar, H. W., 12  
 Seiberth, P., 287  
 Seidl, A., 336  
 Seiler, J. F., 108  
 Selbie, W. B., 262  
 Selby, A. L., 60  
 Selby, F. J., 183  
 Seligman, C. G., 150, 162  
 Seligman, E. R. A., 233  
 Sell, F. R., 224  
 Sellards, A. W., 55  
 Sellers, A., 207  
 Sellers, C., jr., 266  
 Sellers, H., 177  
 Sellers, R. R., 308  
 Sellery, G. C., 201  
 Sellow, G. T., 102  
 Selling, L., 99  
 Semans, H. M., 76  
 Sembower, C. J., 30  
 Semple, P., 85  
 Sen, D. N., 263  
 Sen, N. K., 81  
 Sen, P. C., 133  
 Sen, R. C., 20  
 Senior, H. D., 237  
 Senning, J. P., 143  
 Senour, F. C., 31  
 Senseney, H., 248  
 Senter, G., 159  
 Sequeira, J. H., 169  
 Serabji, R. K., 7  
 Setalvad, Sir C. H., 31  
 Setchell, W. A., 23  
 Seth, J., 91  
 Seth-Smith, D., 187  
 Seton, R. S., 140  
 Seton, W. W., 154  
 Seton-Watson, R. W., 150, 157  
 Settle, G. M., 17  
 Seulke, K. J., 125  
 Severance, A. D., 68  
 Severance, G., 276  
 Severynhaug, W. L., 234  
 Sewall, E. C., 301  
 Seward, A. C., 47, 51  
 Seward, H. L., 229  
 Seward, S. S., jr., 299  
 Sexton, B., 229  
 Sexton, P. T., 6  
 Seybolt, R. F., 318  
 Seyfert, S. S., 27  
 Seymour, C., 228  
 Seymour, H. J., 85  
 Seymour, J. H., 197  
 Seymour, P. A., 37  
 Seymour, R. J., 77, 78  
 Shaad, G. C., 137  
 Shadle, A. R., 42, 123  
 Shafer, Hon. J. D., 269  
 Shafer, R., 18  
 Shaffer, P. A., 288  
 Shah, M. M., 130  
 Shaftesbury, Rt. Hon. Earl of, 21  
 Shah, Miss A., 132  
 Shah, K. T., 224  
 Shah, S., 44  
 Shahin, T. K., 27  
 Shahan, Rt. Rev. T. J., 327  
 Shakespear, G. A., 28  
 Shambaugh, B. F., 120  
 Shanahan, Very Rev. E., 327  
 Shandelle, H. J., 324  
 Shands, A. R., 326, 339  
 Shanklin, W. A., 216  
 Shanks, L. P., 195, 202  
 Shann, E. O. G., 264  
 Shannon, E. V., 331  
 Shannon, T. J., 286  
 Shapleigh, J. B., 288  
 Shapley, H., 262  
 Shargha, K., 299  
 Sharkey, Sir S. J., 148  
 Sharkey, Sir S. J., 167  
 Sharma, A. K., 263  
 Sharman, M. S., 212  
 Sharp, C. H. C., 81  
 Sharp, D. L., 33, 35  
 Sharp, F. C., 201  
 Sharp, Hon. H., 295  
 Sharp, L. W., 125  
 Sharp, Mrs. M., 81  
 Sharp, R. F., 177  
 Sharpe, F. R., 123  
 Sharpe, W. A., 184  
 Sharples, A., 128  
 Sharrad, J. A., 291



- Shastie, Sir R., 127  
 Shastri, L. D., 81  
 Shastri, M. H., 45  
 Shastri, N. D., 200  
 Shastri, R. D., 133  
 Shattock, S. B., 167  
 Shattock, S. G., 151, 167  
 Shattuck, H. B., 303  
 Shang, G. R., 133  
 Shaw, E. S., 158  
 Shaw, A. M., 291  
 Shaw, A. N., 219  
 Shaw, C. F., 24  
 Shaw, C. G., 236  
 Shaw, E. A., 211  
 Shaw, F., 209  
 Shaw, G. E., 295  
 Shaw, H. B., 171  
 Shaw, J. B., 317  
 Shaw, J. E., 309  
 Shaw, Eng.-Commr. J. F., 182  
 Shaw, L. E., 167  
 Shaw, M. A., 120  
 Shaw, Sir N., 152, 180  
 Shaw, R. S., 90  
 Shaw, T. J., 231  
 Shaw, W. A., 183  
 Shaw, W. C., 115  
 Shaw, W. T., 276  
 Shea, D. W., 328  
 Shea, J. F., 324  
 Shealy, E. M., 202  
 Sheard, C., 76  
 Shearer, Miss E. A., 247  
 Shearer, J. S., 122  
 Sheavyn, Miss P., 206  
 Shedd, S., 276  
 Sheedy, G., 79  
 Sheehy, R. J., 103  
 Sheen, W., 60  
 Sheilds, B. F., 85  
 Sheill, S., 85  
 Shelby, E. P., 237  
 Sheldon, E. S., 53  
 Sheldon, E. W., 97  
 Sheldon, H. C., 34, 35  
 Sheldon, H. D., 98, 99  
 Sheldon, W. G., 188  
 Sheldon, W. H., 115, 123  
 Shellford, V. E., 318  
 Shellabarger, S., 273  
 Shelley, J., 297  
 Shelton, C. R., 326  
 Shelton, W. H., 263  
 Shennan, T., 1  
 Shepard, C. J., 77  
 Shepard, C. N., 238  
 Shepard, E. I., 341  
 Shepard, M., 270  
 Shepard, Miss M., 268  
 Shepard, O., 116  
 Shepard, W. K., 229  
 Shepard, W. P., 71  
 Shephardson, F. L., 114  
 Shephard, W. R., 232  
 Shepherd, Dorothy B., 40  
 Sheppard, A. W., 190  
 Sheppard, E. Ellen, 149  
 Sheppard, E. J., 190  
 Sheppard, G. F., 180  
 Sheppard, J. T., 49  
 Sheppard, L. A., 177  
 Sheppard-Smith, J., 287  
 Sherbon, Miss F. B., 137  
 Sherburn, G. W., 64  
 Sheridan, E., 85  
 Sherlock, R. L., 182  
 Sherma, A. K., 263  
 Sherman, C. E., 77  
 Sherman, H. C., 235  
 Sherman, H. D., 42  
 Sherman, L. A., 143  
 Sherman, L. W., 143  
 Sherman, P. D., 249  
 Sherman, S. P., 317  
 Sherman, W. O., 269  
 Sherraden, W. H., 250  
 Sherrington, C. S., 255, 256, 258  
 Sherwood, G. H., 240  
 Sherwood, N. P., 137  
 Sherwood, W. B., 259  
 Shewan, J., 306  
 Shields, B. F., 103  
 Shields, Miss M. C., 298  
 Shields, T. E., 328  
 Shimek, B., 120  
 Shimold, J. E., 248  
 Shine, J., 85  
 Shinn, F. L., 99  
 Shipley, Sir A. E., 46, 48, 50  
 Shipley, A. M., 16  
 Shipley, F. W., 287  
 Shipman, H. R., 273  
 Shipton, W. D., 287  
 Shirlaw, M., 93  
 Shirley, H. J., 171  
 Shirving, A. A. S., 93  
 Shively, Miss M., 199  
 Shoemaker, C. G., 326  
 Shoemaker, C. W., 332  
 Shoemaker, F. C., 75  
 Shoemaker, H., 197  
 Shoemaker, J. N., 77  
 Shore, L. E., 47  
 Shore, T. W., 166  
 Shorey, E. R., 202  
 Shorey, P., 63  
 Short, A. R., 39  
 Shotwell, J. T., 232  
 Shoub, H. L., 336  
 Shovelton, S. T., 156, 157  
 Show, A. B., 299  
 Showerman, G., 201  
 Showman, H. M., 70  
 Shroff, F. B., 127  
 Shull, G. H., 274  
 Shulman, L., 197  
 Shumway, Bertha M., 262  
 Shumway, W., 115  
 Shunock, S. H., 149  
 Slutt, F. T., 254  
 Shuttlesworth, T. E., 293  
 Sibley, F. H., 137  
 Sibly, T. F., 89  
 Siblee, E., 38, 39  
 Siceloff, L. P., 234  
 Sidebotham, E. J., 207  
 Sidgwick, A., 259  
 Sidgwick, Mrs. H., 52, 193  
 Sidgwick, N. V., 25  
 Sieber, P. R., 269  
 Siebert, W. H., 76  
 Sieg, J. P., 120  
 Sievers, F. J., 276  
 Sigerson, G., 85  
 Siggins, F. X., 324  
 Sihler, E. G., 236  
 Sikes, E. E., 50  
 Silk, J. F. W., 172  
 Sillar, W. C., 92  
 Sills, H. H., 49  
 Silver, D., 269  
 Silver, L. M., 113  
 Silverman, A., 269  
 Silverman, L. L., 115  
 Silvernail, J. P., 282  
 Sinn, J., 107  
 Simanek, G. F., 251  
 Simard, A., 278  
 Simard, H., 278  
 Simers, L. M., 218  
 Simkhovitch, V. G., 232  
 Simmonds, C., 180  
 Simmons, G. E., 253  
 Simmons, J. P., 236  
 Simmons, Miss L. V. T., 302  
 Simms, H., 207  
 Simon, C. E., 16  
 Simon, Rt. Hon. Sir J. A., 258  
 Simonds, W. E., 102  
 Simonson, A., 198  
 Simonton, T. G., 269  
 Simpson, C. A., 327  
 Simpson, D. C., 260, 262  
 Simpson, F., 319  
 Simpson, F. A., 50  
 Simpson, F. L., 34, 35  
 Simpson, G., 293  
 Simpson, G. C., 45, 296  
 Simpson, G. C. E., 145  
 Simpson, H. C., 309  
 Simpson, H. D., 12  
 Simpson, H. E., 110  
 Simpson, J. C., 219  
 Simpson, J. R., 269  
 Simpson, J. Y., 95  
 Simpson, P., 256, 257  
 Simpson, S., 122, 123  
 Simpson, W. J., 176  
 Simpson, W. J. R., 151, 157, 170, 172  
 Sims, S. H., 121  
 Sinclair, F. W., 215, 249  
 Sinclair, Miss M. E., 249  
 Sinclair, T., 21, 22  
 Sinclair, W. J., 274  
 Sing, C., 10  
 Singer, C., 190  
 Singer, C. J., 257  
 Singer, H. D., 319  
 Singewald, J. T., 14  
 Singh, B., 133, 299  
 Singh, B. A., 127  
 Singh, D., 10  
 Singh, G., 131, 133  
 Singh, H., 10  
 Singh, H. B., 10  
 Singh, K., 10  
 Singh, L. M. G., 132  
 Singh, N., 10  
 Singh, P., 131  
 Singh, R., 280  
 Singh, S. B., 132  
 Singh, S. G., 112  
 Singh, S. N., 112  
 Singh, S. P., 112  
 Singh, S. R., 112  
 Singh, S. S., 112  
 Singh, S. T., 112  
 Singh, T., 10  
 Singleton, C. V., 135  
 Singleton, H. S., 174  
 Sinnatt, F. S., 209  
 Sinnatt, O. S., 157  
 Siraj-ud-Din, R., 131  
 Sircar, D., 45  
 Sircar, K. M., 8  
 Sircar, Miss M., 199  
 Sircar, The Hon. Sir N., 43  
 Siros, J., 278  
 Siros, L. P., 278  
 Sirrine, F. A., 104  
 Sisam, C. H., 74  
 Sissa, Miss L. M., 280  
 Sisson, E. O., 217  
 Sisson, E. P., 114  
 Sisson, L. E., 106  
 Sisson, S., 76  
 Sissons, C. B., 309  
 Sivaprakasam, D., 131  
 Sjogren, O. W., 141  
 Skan, S. A., 195  
 Skeats, E. W., 213  
 Skeel, A. J., 68  
 Skeel, Miss C. A. J., 152, 161  
 Skeel, R. E., 68  
 Skeele, W. F., 196, 198  
 Skeels, D., 217  
 Skene, A., 214  
 Skene, MacGregor, 2  
 Skiff, F. J. V., 66  
 Skilton, C. S., 138  
 Skinner, C. E., 12  
 Skinner, C. H., 80  
 Skinner, C. R., 211  
 Skinner, E. B., 201  
 Skinner, G. S., 249  
 Skinner, L. T., 142  
 Skinner, P. O., 115  
 Skirving, A. A. S., 93  
 Skoog, A. J., 137  
 Slack, A. J., 196  
 Slack, H. R., jr., 15  
 Slack, S. B., 219  
 Slade, R. E., 171  
 Slade, W. A., 334  
 Sladen, F. D., 177  
 Slater, D. A., 151, 160  
 Slater, G., 204  
 Slater, Miss J. M. W., 52  
 Slaughter, H. E., 63  
 Slaughter, M. S., 281  
 Slaymaker, P. K., 141  
 Sleeman, J. H., 98  
 Sleeper, H. D., 247  
 Sleaf, C. C., 235  
 Slemmons, S. M., 229  
 Slessor, Major A. K., 269  
 Slichter C. S., 201  
 Slichter, W. I., 235  
 Sloan, S. B., 120  
 Sloan, W. H., 300  
 Sloane, R. C., 77  
 Slocum, F., 275  
 Slonaker, J. R., 300  
 Slonimsky, H., 14  
 Slotess, A., 83  
 Sluder, G., 288  
 Sluss, A. H., 138  
 Small, A. W., 62, 63  
 Small, J. K., 244  
 Small, W. D. D., 94  
 Small, W. M., 109  
 Smallwood, J. C., 15  
 Smart, E. H., 159  
 Smart, J. S., 105  
 Smart, W. A. M., 169  
 Smart, W. M., 51  
 Smeal, G., 92  
 Smetnam, A., 193  
 Smiddy, T., 79  
 Smiles, S., 89, 190  
 Smiley, F. J., 23  
 Smiley, M. T., 144  
 Smith, 272  
 Smith, A., 25, 234, 278  
 Smith, A. H., 178  
 Smith, A. J., 85

- Smith, A. L., 257  
Smith, A. L. F., 258  
Smith, A. W., 70, 76,  
114, 125  
Smith, B., 182  
Smith, B. T. D., 51  
Smith, C., 286  
Smith, C. A., 202  
Smith, C. C., 254  
Smith, C. G. M., 202  
Smith, Sir C. H., 179  
Smith, C. M., 54  
Smith, C. S., 325, 344  
Smith, C. W., 141  
Smith, D., 209  
Smith, D. E., 233  
Smith, D. K., 312  
Smith, De L., 217, 218  
Smith, D. N., 256  
Smith, D. P., 274  
Smith, D. S., 230  
Smith, E., 167  
Smith, E. B., 273  
Smith, E. H., 51  
Smith, Miss E. H., 24  
Smith, Miss E. M., 197  
Smith, E. R., 302  
Smith, E. S., 288  
Smith, E. W., 114, 299  
Smith, F., 3, 317  
Smith, F. E., 183  
Smith, Miss F. G., 247  
Smith, F. J., 169  
Smith, F. M., 123  
Smith, F. O., 217  
Smith, F. R., 15  
Smith, The Very Rev.  
Sir G., 1  
Smith, G. A., 104  
Smith, G. B., 64, 168  
Smith, G. E., 150, 155  
Smith, G. G., 22  
Smith, G. H., 229  
Smith, G. M., 201, 309  
Smith, G. O., 309, 329  
Smith, Lt.-Col. G. S.,  
222  
Smith, H., 105, 123, 161,  
287  
Smith, H. A., 35, 201,  
258, 260, 261  
Smith, H. B., 208  
Smith, H. D., 76  
Smith, H. de F., 9  
Smith, H. E., 9  
Smith, H. G., 307  
Smith, H. L., 30, 31,  
203  
Smith, H. M., 337  
Smith, Miss H. M., 69  
Smith, H. P., 239  
Smith, H. S. S., 274  
Smith, Hilda W., 40  
Smith, H. W., 253, 336  
Smith, J., 291  
Smith, J. A., 256, 258,  
299  
Smith, Col. Sir J. D.,  
187  
Smith, J. E., 318, 338  
Smith, J. G., 29  
Smith, J. H., 268  
Smith, J. H. E., 190  
Smith, J. J., 304  
Smith, J. L., 92  
Smith, J. L. S., 92  
Smith, J. M. P., 64  
Smith, J. P., 300  
Smith, J. R., 232, 274  
Smith, J. W., 17, 207  
Smith, K. K., 275  
Smith, L., 285  
Smith, L. B., 25  
Smith, L. H., 319  
Smith, L. S., 202  
Smith, M., 235, 246,  
263, 324  
Smith, Miss M., 284  
Smith, M. A. B., 113  
Smith, Miss M. E., 33,  
135  
Smith, M. I., 142, 251  
Smith, M. J., 125  
Smith, M. P., 41  
Smith, Miss M. S., 52  
Smith, N., 206  
Smith, N. H., 262  
Smith, N. K., 91  
Smith, P. F., 228  
Smith, P. S., 329  
Smith, R. A., 178  
Smith, R. B., 114  
Smith, R. E., 24  
Smith, R. G., 306  
Smith, R. H., 46  
Smith, Miss R. M., 198  
Smith, R. P., 167  
Smith, R. S., 247  
Smith, R. T., 86  
Smith, R. W., 313  
Smith, S., 178  
Smith, S. A., 299  
Smith, S. B., 303  
Smith, Lt.-Col. S. B.,  
131  
Smith, Miss S. E., 297  
Smith, S. P., 162  
Smith, S. S., 269  
Smith, S. W. J., 23  
Smith, T., 183  
Smith, T. A., 237  
Smith, T. C., 341  
Smith, T. J., 212  
Smith, T. T., 137  
Smith, U. H., 30, 31  
Smith, Miss W., 154,  
156  
Smith, W. A., 177  
Smith, W. C., 178  
Smith, W. D., 99  
Smith, W. G., 83, 86,  
309  
Smith, W. H., 319  
Smith, W. M., 90, 203  
Smith, W. M., 90  
Smith, W. R., 41  
Smith, Sir W. R., 176  
Smith, W. S., 16  
Smith, W. W., 96  
Smith, Y. B., 235  
Smithells, A., 140, 190  
Smithies, F., 319  
Smithson, G. A., 23  
Smyley, J. G., 83, 84  
Smyser, W. E., 80  
Smyth, C. H., 274  
Smyth, F. R., 171  
Smyth, H. L., 55  
Smyth, H. W., 53  
Smyth, J., 212  
Smythe, J. A., 89  
Smythe, L. B., 83  
Snake, A. E., 58  
Snapp, R. R., 319  
Sneath, E. H., 229  
Snedden, D., 232  
Snell, Miss A. L. F., 297  
Snell, J. F., 220  
Snodgrass, J. McB., 318  
Snook, J. H., 77  
Snow, B. W., 201  
Snow, C. H., 286  
Snow, C. M., 320  
Snow, Miss J. W., 247  
Snow, W. F., 301  
Snowden, E., 326  
Snowden, J. H., 270  
Snyder, A. M., 268, 269  
Snyder, C. D., 15  
Snyder, V., 122  
Soares, T. G., 64  
Sohon, F., 323  
Soiland, A., 197  
Souissat, St. G. L., 275  
Solberg, T., 334  
Sollas, W. J., 256, 257  
Sollmann, T., 68  
Soloman, A., 23  
Somers, G. B., 301  
Somers, R. E., 123, 268  
Somervell, D. B., 258  
Somerville, W., 256, 257  
Sommer, F. H., 236  
Sommerville, D., 157  
Sommerville, D. M. Y.,  
340  
Sondhi, L. G. D., 131  
Sonntag, C. F., 187  
Soper, A. L., 161  
Soper, M. A., 17  
Sopp, F. J., 329  
Sorenson, W., 250  
Sorgatz, F. B., 246  
Sorley, W. R., 48  
Sosman, R. B., 336, 339  
Soule, J. F., 134  
Soulsby, B. H., 178  
Sousley, C. P., 302  
Soutar, G., 284  
Soutar, R. G., 245  
Souter, A., 2  
South, F. W., 128  
South Australia, The  
Governor of, 3  
Southall, J. P. C., 234  
Southard, E. E., 54  
Southerns, L., 293, 294  
Southwell, R. N., 51  
Southwick, G. R., 34  
Southworth, H. E., 197  
Souttar, H. S., 169  
Spaeth, J. D., 272  
Spaeth, J. L., 286  
Spaeth, R. A., 15  
Spalding, A. B., 300  
Spalding, G. D., 134  
Spalding, H. O., 34  
Spalding, W. F., 163  
Spalding, W. R., 54  
Spandan, H. M., 90  
Sparks, E. E., 301  
Spanl, E. A., 159  
Spaulding, E. G., 272  
Spaulding, J. A., 102  
Spaulding, T. C., 217  
Spear, I. J., 16  
Spear, L. M., 211  
Spearing, H. G., 155  
Spearman, C., 151, 155  
Spease, E., 68  
Speelman, J., 249  
Speer, J. B., 217  
Speight, R., 67  
Spence, B. J., 110  
Spencer, C. E., 98  
Spencer, C. S., 281  
Spencer, G., 172  
Spencer, H. R., 16, 76,  
171  
Spencer, J. F., 152, 160  
Spencer, L. J., 178  
Spencer, Sir W. B., 215,  
306  
Spencer, W. C., 114  
Spencer, W. H., 64  
Spengler, H. T., 90  
Spens, W., 49  
Sperry, F. N., 229  
Sperry, W. L., 57  
Spicer, W. H., 166  
Spicer, W. T. H., 170  
Spiers, A. G. H., 233  
Spiers, F. S., 194  
Spiers, V., 156  
Spilsbury, B. H., 173  
Spinden, H. J., 240  
Spittle, J. T., 49  
Spohr, C. L., 76  
Spohr, Miss W., 233  
Spokes, S., 171  
Spoonster, A. R., 20  
Spoonster, W. A., 258  
Sprague, A. E., 92  
Sprague, A. W., 253  
Sprague, Miss E. C., 136  
Sprague, E. H., 253  
Sprague, G. C., 237  
Sprague, O. M. W., 55  
Sprague, T. A., 195  
Spratt, H. W., 50  
Sprawson, E., 169  
Sprengling, M., 64  
Sprent, F. P., 177  
Sprigge, J. A., 181  
Spring, F. G., 128  
Spring, S. N., 124  
Springer, G. P., 338  
Springer, S., 1114  
Sprott, Mrs. B., 175  
Spurgeon, Caroline F.  
E., 150, 160  
Spurs, P. C., 131  
Squier, J. B., 234  
Squire, D. H., 41, 42  
Squire, W. B., 177  
Squires, V. P., 110  
Squires, W. H., 71  
Squirrel, W. J., 111  
Staab, H. H., 11  
Staaf, O. E., 69  
Stable, J. J., 37  
Stabler, H., 329  
Stabler, L. J., 196, 198  
Stacey, H. S., 306  
Stafford, C. M. T., 215  
Stafford, J. G. W., 805  
Stafford, O. F., 99  
Stafford, S. G., 163  
Stafford, W. P., 326  
Stagg, A. A., 63  
Staggall, J. E., 284  
Stahl, Miss M. L., 12  
Staines, H., 158  
Stalham, I. E. F., 293  
Stalker, A. M., 284  
Stallybrass, W. T. S.,  
257, 259  
Stamp, A. E., 183  
Stampa, L., 257  
Standley, P. C., 331  
Stanfield, R., 94  
Stanford, Sir C. V., 48  
Stang, A. H., 245  
Stanley, E. G., 166  
Stanley, Miss G., 80  
Stanley, G. H., 126  
Stanley, H., 39  
Stanley, J. D., 29  
Stansfield, A., 219  
Stansfield, A. E., 166  
Stansfield, H., 296  
Stanton, Miss A., 136  
Stanton, B. L., 213  
Stanton, T. E., 183

- Stanton, T. W., 329,  
332  
Stanton, V. H., 47  
Stapl. O., 195  
Stapledon, R. G., 3  
Staples, E. J., 70  
Starbuck, E. D., 120  
Starch, C., 201  
Starin, W. A., 77  
Stark, W. E., 70  
Starkey, T. A., 219, 229  
Starks, Mrs. C. L., 209  
Starks, E. C., 300  
Starling, E. H., 151, 155  
Starr, Miss A. M., 298  
Starr, C. L., 310  
Starr, E. G., 42  
Starr, F., 64  
Starr, F. N. G., 310  
Starr, S. P., 320  
Staveley, A. L., 326  
Staveley, M. C., 38  
Stearns, A. W., 211  
Stearns, C. R., 12  
Stebbins, H. W., 300  
Stebbins, J., 317  
Stebbins, L. W., 24  
Stebinger, E., 329  
Steckel, T. E., 80  
Stecker, H. F., 302  
Steel-Maitland, Sir A.,  
162  
Steele, B. D., 37  
Steele, B. L., 276  
Steele, R. B., 225  
Steele, R. M., 4  
Steele, S., 67  
Steen, R. H., 172  
Steenbock, H., 203  
Steenfannon, J., 156  
Steffen, E. H., 276  
Stegeman, G., 269  
Steidtman, E., 202  
Steiger, G. W., 329  
Steik, K. T., 135  
Steindler, A., 121  
Steiner, E. von den,  
69  
Steiner, N. F., 251  
Steinfeld, A. M., 77  
Steitz, A., 245  
Stejneger, L., 331  
Stempel, G. H., 30  
Stenning, J. F., 253,  
260, 261  
Stenton, F. M., 280  
Stephen, Miss, 52  
Stephen, H., 207  
Stephens, A. C., 88  
Stephens, G., 287  
Stephens, J., 102  
Stephens, J. S., 253  
Stephens, J. W., 207  
Stephens, Lt.-Col. J.  
W. W., 145, 147  
Stephens, T. C., 82  
Stephenson, C., 287  
Stephenson, H. A., 301  
Stephenson, Col. H. K.,  
292  
Stephenson, H. T., 30  
Stepp, M. D., 68  
Steppat, J., 152, 160  
Sterenberg, J., 102  
Sterling, C. M., 137  
Sterling, M. W., 136  
Sterling, Miss S. A., 202  
Stern, H., 265  
Sternberg, W. P., 250  
Sterns, C. O., 336  
Serves, H. R., 233  
Steison, F. L., 99  
Stetson, R. H., 249  
Steve, W. F., 202  
Steven, A. B., 107  
Stevens, Miss A. P., 297  
Stevens, Miss C. F., 297  
Stevens, D. H., 64  
Stevens, F. L., 317  
Stevens, G. C., 329  
Stevens, H. C., 320  
Stevens, J. S., 252  
Stevens, R., 233  
Stevens, S., 125  
Stevens, W. B., 75  
Stevens, W. C., 137  
Stevens, W. M., 60  
Stevenson, A. H., 235  
Stevenson, G. H. L.,  
257  
Stevenson, H. N., 251  
Stevenson, J. H., 225  
Stevenson, J. R., 274  
Stevenson, Miss L. S.,  
298  
Stevenson, O. J., 111  
Stevenson, R. A., 120  
Stevenson, R. T., 80  
Stevenson, T. H. C., 188  
Stevenson, W. B., 106  
Stevenson, Major  
W. D. H., 33  
Stevenson, W. H., 260  
Stevenson, W. J., 196  
Steward, F. J., 167  
Steward, H. F., 50  
Stewart, Emeritus Pro-  
fessor, 104  
Stewart, A. B., 114  
Stewart, A. W., 22, 105  
Stewart, C. C., 115  
Stewart, C. H., 92  
Stewart, F. C., 104  
Stewart, G. A., 96  
Stewart, G. D., 237, 242  
Stewart, G. N., 68  
Stewart, G. R., 24  
Stewart, G. W., 120  
Stewart, H., 67  
Stewart, H. L., 113  
Stewart, H. W., 203  
Stewart, I. F., 12  
Stewart, Miss I. M., 233  
Stewart, J., 113  
Stewart, J. A., 256, 259  
Stewart, J. D., 306  
Stewart, J. E., 329  
Stewart, J. L., 26, 27  
Stewart, J. McK., 212  
Stewart, Sir J. P., 172  
Stewart, J. W. A., 282  
Stewart, L. B., 96, 310  
Stewart, L. M., 28  
Stewart, M. J., 140  
Stewart, R., 319  
Stewart, R. M., 124, 254  
Stewart, R. R., 280  
Stewart, R. T., 268  
Stewart, W. A., 344  
Stewart, W. F., 77  
Stewart, W. K., 115  
Stewart, W. W., 9  
Stibbe, E. P., 126  
Stieglitz, J., 63  
Stiehm, E. O., 30  
Stiles, C. W., 332, 336  
Stiles, Sir H., 92  
Stiles, P. G., 55  
Still, G. F., 172, 174  
Stillman, S., 300  
Stimpson, E. E., 137  
Stimson, A. M., 336  
Stirling, Sir E. C., 4  
Stirling, J. W., 219  
Stirrup, H. H., 128  
Stitt, E. R., 323  
Stiven, F. B., 249  
Stock, O. L., 308  
Stockard, C. R., 123  
Stockdale, H. F., 106  
Stockler, J. A., 163  
Stockler, J. E., 27  
Stockler, W. N., 259  
Stocking, W. A., 124  
Stockley, W. F. P., 78  
Stockman, R., 105  
Stocks, E. V., 89  
Stocks, J. L., 260  
Stoddart, C. W., 302  
Stoddart, W. H. B., 167  
Stoek, H. H., 318  
Stoff, W. E., 250  
Stogden, Miss M. B., 81  
Stokes, A. C., 142, 251  
Stokes, A. P., 227  
Stokes, G. J., 79  
Stokes, J. F. G., 119  
Stokes, W. R., 16  
Stokey, Miss A. G., 298  
Stoland, O. O., 137  
Stoltenberg, C. S., 300  
Stolts, R. B., 76  
Stone, A. L., 203, 217  
Stone, C. G., 257  
Stone, C. W., 63  
Stone, E. C., 116  
Stone, H. B., 17  
Stone, H. F., 235  
Stone, J. L., 124  
Stone, Miss L. W., 159  
Stone, R. W., 18, 329,  
339  
Stone, Preb. W. H., 161  
Stoney, G. G., 209  
Stopes, M. C., 156  
Stopford, J. S. B., 207  
Stops, W. J. T., 118  
Storek, H. I., 324  
Story, F., 19  
Story, W. R., 343  
Stott, W., 147  
Stolz, H. P., 299  
Stouffer, E. B., 137  
Stout, A. B., 244  
Stout, G. F., 92, 284  
Stout, O. V. P., 141  
Stout, Sir R., 340  
Stout, S. E., 30  
Stovall, W. D., 201  
Stover, Miss M. E., 268  
Stover, W. G., 76  
Stowell, W. A., 9  
Strachan, Miss I. D.,  
305  
Strachan, L. M., 29  
Strachey, Miss J. P., 52  
Stradling, R. E., 29  
Strahan, Sir A., 182  
Strahan, J. A., 22  
Strange, Lt.-Col. E. F.,  
179  
Strangeways, T. S. P.,  
47  
Stratton, A., 155  
Stratton, F. M. J., 47,  
49, 51  
Stratton, G. M., 23  
Stratton, G. W., 137  
Straub, J., 98, 99  
Strayer, G. D., 232  
Streetfield, F., 259  
Streeter, B. H., 257  
Stricklen, E. G., 24  
Strieby, W., 74  
Strine, H. F., 323  
Stritch, M. I., 256  
Stroebe, 271  
Strobel, E. R., 15  
Strömberg, G., 262  
Stromquist, C. E., 135  
Stromsten, F. A., 120  
Strong, A. H., 282  
Strong, A. T., 212  
Strong, Miss B., 247  
Strong, F., 136  
Strong, G. F., 70  
Strong, J., 140  
Strong, J. E., 280  
Strong, K., 277  
Strong, O. S., 235  
Strong, R. P., 54  
Strong, T. B., 255, 259  
Stroock, S. M., 239  
Stroud, H., 89  
Stroup, F. P., 265  
Struck, 272  
Struck, F. T., 302  
Strunk, W., 122  
Struthers, J. W., 93  
Stryker, C. W., 11  
Stuart, A. M. C., 1, 2  
Stuart, Hon. C. A., 96  
Stuart, D. C., 275  
Stuart, D. R., 272  
Stuart, H., 45  
Stuart, H. W., 299  
Stuart, M., 45  
Stuart, Sir T. A., 306  
Stuart, W. J., 93  
Stubbs, G., 180  
Studdiford, W. E., 234  
237  
Studer, P., 256  
Stuff, F. A., 143  
Sturgis, C., 123  
Sturgis, J. W., 245  
Sturley, A. A., 342  
Sturmer, J. W., 265  
Sturnes, W., 180  
Sturtevant, A. M., 136  
Sturtevant, E. H., 233  
Subotic, D., 157  
Subtahmanyadyen, V.,  
223  
Sudler, M. T., 137  
Sugden, E. H., 215  
Sugden, S., 159  
Sunrawardy, Hon. A.  
Al.-M., 45  
Suhul, M., 44  
Sullivan, C. T., 219  
Sullivan, J., 6  
Sullivan, J. D., 6, 324  
Sullivan, L. R., 240  
Sullivan, R. Y., 329  
Sullivan, W. E., 211  
Sullivan, W. G., 291  
Sullivan, W. W., 137  
Sulzberger, Hon. M.,  
265  
Summerby, R., 220  
Summers, C. L., 16  
Summers, H. S., 213  
Summers, J. E., 251  
Summers, W. C., 292  
Sunner, F. B., 23  
Sumner, H., 146  
Sunner, J. B., 123  
Sunner, W. A., 203  
Sunderville, E., 124  
Super, R. C., 71  
Surfraz, S. A., 32  
Surgeon, C. F. E., 160  
Suri, L. M. C., 131



- Suri, S. R., 126  
Surveyer, E. F., 219  
Sutcliffe, Miss D., 29  
Sutherland, Lt.-Col. D. W., 129, 130, 131  
Sutherland, G. K., 297  
Sutherland, J. P., 33, 34  
Sutherland, L. R., 284  
Sutherland, Miss M. M. J., 107  
Sutherland, Lieut.-Col. W. D., 45  
Suttie, R. H., 229  
Sutton, F., 329  
Sutton, L. H., 326  
Sutton, R. L., 137  
Svensen, C. L., 77  
Swahlen, P. H., 286  
Swain, A. E., 300  
Swain, G. F., 55  
Swain, H. L., 229  
Swain, I., 78  
Swain, J., 39  
Swales, B. H., 332  
Swan, H. C., 116  
Swan, T. W., 227, 229  
Swanson, W. W., 291  
Swanton, J. R., 332  
Swanwick, K. F., 37  
Swart, J., 74  
Swartz, C. K., 14  
Swartzel, K. D., 76  
Swayne, W. C., 39  
Sweeney, Miss A. L., 138  
Sweet, A. H., 123  
Sweet, E. G., 249  
Sweet, G., 213  
Sweetland, C. S., 275  
Sweetser, A. R., 99  
Sweetser, E. O., 287  
Sweetser, H. P., 253  
Sweetser, W. J., 253  
Swenelhart, J. H., 202  
Swenk, M. H., 142  
Swenson, Miss J., 218  
Swett, O. D., 325  
Swezey, G. D., 142  
Swezey, O. K., 119  
Swift, A. L., jr., 239  
Swift, C. H., 64  
Swift, E. J., 287  
Swift, H., 4  
Swift, H. F., 123  
Swindler, J. A., 302  
Swingle, W. T., 332  
Swinerton, H. H., 248  
Swinney, E. E., 202  
Swisher, C. C., 325  
Swisher, C. L., 279  
Switzer, F. G., 125  
Swope, B. A., 268  
Sy, A. P., 42  
Sykes, Major-General Sir F. H., 180  
Syling, P., 270  
Sylvester, R. H., 120  
Sym, W. G., 92  
Symmers, D., 237  
Symmers, W. St. C., 21, 22  
Symonds, Sir C. J., 148  
Symons, H., 177  
Synder, R. G., 235  
Synde, J. L., 83  
Taber, H., 343  
Taft, A. L., 249  
Taft, Helen H., 40  
Taft, L., 63  
Taft, W. H., 229  
Tagg, H. F., 96  
Taggart, A. F., 235  
Taheruddin, M., 44  
Tainter, F. J., 286  
Tait, J., 219  
Tait, W. D., 219  
Talbot, A. N., 318  
Talbot, Miss E. B., 297  
Talbot, Miss M., 63, 297  
Talbot, P., 25  
Tallman, Miss L., 233  
Tamblyn, W. F., 195  
Taneyhill, C. L., jr., 15  
Tanger, J., 302  
Tanner, J. H., 122  
Tanner, J. R., 50, 51  
Tanqueray, F. J., 234  
Tansley, A. G., 48  
Tapley, G. H., 115  
Tappan, F. G., 245  
Taqi, S. G., 263  
Tarleton, F. A., 82  
Tarmaan, F. E., 245  
Tarrant, H. L. B., 180  
Tarum, W., 16  
Taschereau, R., 221, 278  
Tashiro, S., 64  
Tasker, H. L., 171  
Tasmania, The Governor of, 118  
Tassin, A. De V., 233  
Tate, F. G. H., 180  
Tate, R. W., 82, 83  
Tatlock, J. S. P., 299  
Tatlow, W., 83  
Tattersall, C. W. E., 208  
Tattersall, G., 264  
Tattersfield, F., 282  
Tatum, A. L., 64  
Taunam, M. L., 32  
Tausig, A. E., 288  
Tausig, F. W., 53  
Tavener, E., 287  
Tavernetti, T., 25  
Tawney, R. H., 257  
Taylor, A., 287  
Taylor, A. E., 284  
Taylor, A. N., 237  
Taylor, A. S., 123  
Taylor, A. T., 148  
Taylor, C. W., 143  
Taylor, D. L., 323  
Taylor, E., 202  
Taylor, E. C., 230  
Taylor, E. H., 83  
Taylor, E. W., 54  
Taylor, F. E., 157  
Taylor, F. L., 142  
Taylor, F. O., 242  
Taylor, G., 173  
Taylor, G. L., 50  
Taylor, H. C., 234, 333  
Taylor, H. S., 274  
Taylor, Miss J., 37  
Taylor, J., 170  
Taylor, J. A., 110  
Taylor, J. J., 163  
Taylor, J. M., 114  
Taylor, J. P., 115  
Taylor, J. R., 33, 35, 76  
Taylor, J. W., 12, 110, 326  
Taylor, L. H. E., 177  
Taylor, Miss M. E., 297  
Taylor, Miss M. E. S., 98  
Taylor, Miss M. G. D., 305  
Taylor, O. M., 104  
Taylor, R., 293  
Taylor, R. L., 341  
Taylor, R. T., 16  
Taylor, S. N., 18  
Taylor, W., 202  
Taylor, W. A., 333  
Taylor, W. M., 246  
Taylor, W. R., 309  
Taylor, W. S., 302  
Taylor, W. W., 92  
Teacher, J. H., 105  
Teago, F. J., 145  
Teale, F. H., 171  
Tedder, H. R., 193  
Teece, R., 306  
Teeters, W. J., 121  
Teggart, F. J., 23  
Telford, E. D., 207  
Temperley, H. W. V., 48  
Temple, Miss A., 65  
Temple, C. A., 312  
Templin, O., 136  
Ten Broeke, J., 313  
Tennant, F. R., 50  
Tennant, J. S., 340  
Tennent, D. H., 41  
Tenney, A. A., 233  
Te Poel, L. T., 250  
Taman, L. M., 299  
Terrell, R. C., 245  
Terrill, A. C., 137  
Territle, V., 321  
Terry, B. F., 63  
Terry, B. T., 225  
Terry, C. S., 2  
Terry, C. T., 235  
Terry, Miss E. M., 64  
Terry, E. M., 201  
Terry, R. J., 288  
Tewkesbury, W. D., 323  
Textor, 271  
Thacher, H. C., 235  
Thacher, Mrs. J. S., 100  
Thacher, J. S., 234  
Thacher, W. F. G., 99  
Thacher, C. R. A., 51  
Thadani, N. V., 81  
Thakur, A., 263  
Thallon, 271  
Thatcher, R. W., 289  
Thatcher, W. S., 51  
Thayer, C. S., 117  
Thayer, F., 277  
Thayer, H. W., 273  
Thayer, W. C., 26  
Thayer, W. R., 336  
Thayer, W. S., 14  
Theiler, Sir A., 252  
Thelberg, E. H., 271  
Theobald, F. V., 150, 344  
Theobald, S., 15  
Theodosius, H. G., 88  
Thesiger, His Excellency the Rt. Hon. Sir F. J. N., 43  
Therd, W., 169  
Thilly, F., 122  
Thirkill, H., 49  
Thistles, W. B., 310  
Thoday, D., 58  
Thole, B., 159  
Tholen, E. F., 198  
Thom, D. R., 1  
Thom, W. C., 338  
Thomas, Sir A. G., 3  
Thomas, A. O., 82, 120  
Thomas, Judge A. P., 145  
Thomas, Miss A. R., 339  
Thomas, A. W., 235  
Thomas, C., 52  
Thomas, C. C., 15  
Thomas, C. F., 70  
Thomas, C. W., 70, 235  
Thomas, D., 3  
Thomas, E. J., 51  
Thomas, Miss E. N., 156  
Thomas, F. W., 152, 155  
Thomas, G., 264  
Thomas, H., 177, 295  
Thomas, H. A., 308  
Thomas, H. B., 320  
Thompson, H. C., 124  
Thomas, H. H., 51, 182, 186  
Thomas, H. M., 15  
Thomas, H. W., 147  
Thomas, J. H., 151, 155  
Thomas, J. J., 68  
Thomas, J. O., 13  
Thomas, J. S., 145  
Thomas, L. F., 287  
Thomas, Miss M., 76  
Thomas, M. C., 40  
Thomas, O., 178  
Thomas, P. G., 152, 156, 160  
Thomas, R. F., 253  
Thomas, S. H., 81  
Thomas, T. P., 18  
Thomas, W. D., 291  
Thomas, W. F., 12  
Thomas, W. N., 29  
Thomas, W. S., 26  
Thomas, W. T., 145  
Thompson, 271  
Thompson, A. M., 269  
Thompson, A. R., 168  
Thompson, A. S., 11  
Thompson, B. H., 142  
Thompson, B. McC., 12  
Thompson, C. D., 8  
Thompson, C. H., 257, 261  
Thompson, C. M., 60  
Thompson, D' A. W., 285  
Thompson, D. W., 284  
Thompson, E. N. S., 120  
Thompson, F. C., 294  
Thompson, E. J., 20  
Thompson, G., 253  
Thompson, G. E., 87  
Thompson, G. F., 319  
Thompson, G. J., 270  
Thompson, G. R., 193  
Thompson, G. S., 316  
Thompson, H., 231  
Thompson, H. D., 274  
Thompson, H. M., 59  
Thompson, H. Y., 187  
Thompson, J., 340  
Thompson, J. L., 24  
Thompson, J. L., 326  
Thompson, J. M., 258  
Thompson, J. O., 10  
Thompson, J. R., 293  
Thompson, J. W., 63  
Thompson, K. O., 70  
Thompson, R. C., 281  
Thompson, R. L., 286  
Thompson, R. N., 217  
Thompson, R. S., 293  
Thompson, S., 29, 74, 196  
Thompson, T., 169, 174  
Thompson, W., 208  
Thompson, W. H., 9  
Thompson, W. O., 75  
Thompson, W. P., 291

# INDEX TO NAMES

- Thompson, W. Y., 251  
Thomson, A., 93, 255, 256  
Thomson, G., 107  
Thomson, G. H., 88  
Thomson, G. K., 113  
Thomson, G. P., 49  
Thomson, H. A., 92  
Thomson, H. C., 173  
Thomson, H. J., 284  
Thomson, H. N., 322  
Thomson, J. A., 2  
Thomson, J. G., 176  
Thomson, Sir J. J., 50, 182, 184, 185  
Thomson, J. O., 29  
Thomson, J. S., 207  
Thomson, K. B., 309, 312  
Thomson, Sir St. C., 172  
Thornburg, C. L., 26  
Thorburn, L. C., 188  
Thorburn, W., 207  
Thorndike, A. H., 232  
Thorndike, E. L., 233, 241  
Thorndike, L., 69  
Thorndike, P., 54  
Thorndike, T. W., 211  
Thorne, Miss M., 174  
Thorne, P. L., 236  
Thornley, A., 305  
Thornsby, F., 164  
Thornton, A. W., 210  
Thornton, D. D., 198  
Thornton, F. A., 286  
Thornton, G. E., 277  
Thornton, H. G., 283  
Thornton, L. H. D., 173  
Thornton, W. M., 89  
Thornton, W. O. W., 14  
Thornycroft, F. J., 159  
Thorpe, Sir E., 190  
Thorpe, F. N., 268, 269  
Thorpe, J. F., 165, 182  
Thorstensberg, E., 99  
Thowaldson, T., 291  
Thrift, H., 83  
Thrift, W. E., 83  
Thring, D. T., 257  
Thro, W. C., 123  
Throckmorton, A. H., 68  
Thurn, Sir E., 191  
Thurnau, H. C., 136  
Thursfield, H., 166  
Thursfield, J. H., 174  
Thurston, E. D., jr., 235  
Thurston, E. S., 220  
Thurston, F. S., 180  
Thurston, H. B., 248  
Thurston, W. H., 142  
Thwing, C. F., 67  
Thyng, F. W., 237  
Thynne, The Hon. A. J., 37  
Tibbets, H. M., 114  
Tice, F., 319  
Tidy, H. L., 169  
Tietz, H., 58  
Tigert, H. M., 225  
Tilden, C. J., 15  
Tilden, F. W., 30  
Tilden, Sir W. A., 190  
Tilder, C. J., 228  
Tilston, R. R., 74  
Tilston, W., 229  
Tillett, W. F., 225  
Tilley, A. A., 49  
Tilley, H., 171  
Tillman, W. J., 196  
Tillyard, F., 29  
Tillyard, H. J. W., 126  
Tilney, F., 234  
Tilroe, W. E., 198  
Timberman, A., 76  
Tims, H. W. M., 152, 160, 175  
Tin, M., 279  
Tindall, W. B., 314  
Tinfeld, F. B., 36  
Tingelstad, J., 110  
Tingle, Miss L., 99  
Tinker, C. B., 228  
Tinkler, C. K., 151  
Tinto, J. F., 157  
Tipper, G. H., 45  
Tisdale, H. J., 291  
Titheuer, E. B., 122  
Tizard, T. H., 257  
Tobey, E. R., 253  
Tocher, J. E., 2  
Tod, H., 169  
Tod, M. N., 257  
Todd, A. H., 168  
Todd, C. C., 276  
Todd, D., 10  
Todd, F. A., 305  
Todd, H. A., 232  
Todd, H. C., 246  
Todd, J. A., 257  
Todd, J. B., 92  
Todd, J. E., 22, 113, 137  
Todd, J. W., 110  
Todd, M. N., 256  
Todd, O. J., 322  
Toed, T. W., 68  
Toelle, J. H., 253  
Toews, P., 209  
Tollin, T., 59  
Toll, C. H., 10  
Tomlinson, A., 264  
Tomlinson, F. R., 131  
Tolman, A. H., 63  
Tolman, C. F., jr., 300  
Tolman, H. C., 224  
Tomhave, W. H., 302  
Tompkins, L. J., 236  
Tondorf, F. A., 323, 324  
Tonki, M. M. A., 44  
Tonks, H., 150, 155  
Tonks, O. S., 271  
Tonnochy, A. B., 178  
Tooney, J. T., 324  
Toohy, J. M., 27  
Tooker, N. B., 274  
Toole, W., 111  
Tooth, H. H., 166  
Toothaker, C. R., 267  
Topley, W. W. C., 170  
Torrence, F. M., 303  
Torrens, J. A., 168  
Torrey, C. C., 228  
Torrey, J. C., 123  
Tory, H. M., 96  
Tosdal, H. R., 34  
Tossell, M. W., 163  
Tottigham, W. E., 203  
Totton, A. J., 178  
Touceda, E., 315  
Tough, Miss M., 12  
Toumey, J. W., 227, 229  
Toupin, R., 220  
Tout, T. F., 206  
Tovey, J. R., 298  
Tower, O. F., 68  
Tower, R. W., 240, 241  
Towles, O., 61  
Towne, E. T., 110  
Townend, H., 2  
Townley, S. D., 300  
Townsend, C. E., 125  
Townsend, C. H. T., 332  
Townsend, E. J., 317  
Townsend, H. G., 247  
Townsend, J. S. E., 256, 258  
Townsend, L. L., 202  
Townshend, Hon. Sir C., 342  
Toy, W. D., 61  
Toynbee, A. J., 151, 156  
Tozzer, A. M., 54  
Trabue, M. R., 233  
Tracey, J. I., 229  
Tracy, F., 309  
Tracy, J. C., 235  
Tracy, W. D., 228  
Traner, F. W., 281  
Transeau, E. N., 76  
Traphagem, F. W., 279  
Traquair, R., 219  
Traum, J., 24  
Trautmann, W. D., 70  
Treadgold, W. M., 310  
Treadwell, A. L., 271  
Treat, Miss N., 31  
Treat, P. J., 299  
Treatt, C. C., 178  
Trelease, W., 317  
Trelfall, Sir R., 182  
Tremblay, A., 278  
Trench, W. F., 83  
Trendell, P. G., 179  
Trent, W. P., 232  
Treston, H. J., 78  
Treadley, F., 12  
Trevan, J., 166  
Trevelyan, Sir E. J., 255, 258  
Trevor, J. E., 122  
Trewby, F. J., 166  
Tribe, Miss M., 157  
Trilling, Miss B. M., 201  
Trilling, Miss M. B., 65  
Trimble, H. C., 110  
Trimble, W. B., 237  
Trimble, W. K., 137  
Tripp, M. O., 253  
Trofimov, M. V., 206  
Troostwyk, L., 230  
Trotter, W., 171  
Trotter, W. F., 292, 293  
Trow, A. H., 59  
Trowbridge, A., 274  
Trowbridge, A. C., 120  
Trowbridge, D. S., 236  
Troy, H. C., 124  
True, A. C., 333  
True, G. H., 24  
True, W. P., 331  
Truman, C. E., 161  
Trumpler, R., 270  
Truog, E., 203  
Truscott, S. J., 165  
Tryon, D. W., 247  
Tryon, H. H., 239  
Tryon, R. M., 65  
Tubby, A. H., 172  
Tuck, Miss A. M., 161  
Tucker, A. M., 297  
Tucker, C. A., 17  
Tucker, Emma C., 18  
Tucker, E. F., 99  
Tucker, F. G., 277  
Tucker, G. D. R., 177  
Tucker, J. I., 245  
Tucker, R. H., 223  
Tucker, R. O., 225  
Tucker, R. W. E., 58  
Tucker, S. A., 235  
Tucker, W. M., 76  
Tudor, J. H., 302  
Tufts, J. H., 63  
Tufts, W. P., 25  
Tuke, Miss, 160  
Tuke, Mrs. M. J., 148  
Tulloch, W. J., 234  
Tunncliffe, F. W., 172  
Tupper, J. W., 90  
Tupper, P. Y., 288  
Turberville, A. S., 19  
Turbot, E., 278  
Turkhud, D. A., 33  
Turley, L. A., 245  
Turquet, M., 161  
Turnbull, G. S., 100  
Turnbull, H. M., 151, 169  
Turnbull, Miss J., 36  
Turnbull, J. M., 322  
Turnbull, W. D., 77  
Turneure, F. E., 202  
Turner, A. E., 281  
Turner, Miss A. H., 297  
Turner, A. J., 209  
Turner, A. L., 93  
Turner, B. E., 156  
Turner, C. E., 211  
Turner, C. H., 255, 258  
Turner, D., 93  
Turner, E. O., 102  
Turner, F. J., 53  
Turner, G. G., 89  
Turner, H. G., 27  
Turner, H. H., 186, 256, 258  
Turner, H. M., 229  
Turner, H. W., 173  
Turner, J. G., 175  
Turner, J. R., 237  
Turner, L. B., 49  
Turner, L. M., 23  
Turner, P., 167  
Turner, T., 28  
Turner, W., 172  
Turner, W. A., 172  
Turner, W. E. S., 293  
Turnure, P. R., 123  
Tuttle, A. H., 77  
Tuttle, E. W., 197  
Tuttle, C. A., 216  
Tuttle, G. A., 235  
Tuttle, G. M., 238  
Tuttle, H. N., 110  
Tuttle, J. B., 242  
Tuttle, T. D., 137  
Tuttle, W. F., 166  
Tweedie, C., 92  
Tweedie, E. R., 200  
Tweedie, W. M., 233  
Tweedy, E. H., 86  
Tweedy, H. H., 229  
Twelmow, J. A., 144, 183  
Twenhofel, W. H., 201  
Twig, Miss E. A. N., 28  
Twiss, G. R., 77  
Tylecote, C. B. L., 260  
Tylecote, F. E., 207  
Tyler, A. F., 251  
Tyler, Miss A. S., 68  
Tyler, H. G., 236  
Tyndall, A. M., 39  
Tyrrell, G. W., 165  
Tyrrell, W., 167  
Tyrrell-Green, E., 134  
Tyson, F. D., 268, 269  
Tyzzar, E. E., 36, 54



- Udall, N. R., 127  
 Udall, D. H., 124  
 Uglow, W. L., 322  
 Uhler, H. S., 229  
 Uhls, L. F., 137  
 Ullah, B., 131  
 Ullman, B. L., 120  
 Ullmann, H. M., 27  
 Ullsperger, H. W., 203  
 Ulman, J. N., 17  
 Uley, A. B., 197, 198  
 Ulrich, D., 213, 214  
 Ulrich, E. O., 339  
 Ulrich, J. L., 328  
 Ulsaver, E. S., 235  
 Undergood, P. H., 125  
 Underhill, A. J., 16  
 Underhill, F. H., 291  
 Underhill, F. P., 229  
 Underhill, J. E., 258, 261  
 Underhill, G., 108  
 Underhill, L. K., 24  
 Underwood, A. C., 291  
 Underwood, J. H., 217  
 Unstead, J. F., 159  
 Unthank, H. W., 159  
 Unwin, G., 206  
 Unwin, W. C., 147  
 Upham, J. H. J., 76  
 Upson, F. W., 143  
 Upton, C. B., 234  
 Upton, G. B., 125  
 Upton, W. T., 249  
 Urban, W. M., 116  
 Ure, P. N., 280  
 Urquhart, J. C., 231  
 Urquhart, F. F., 257  
 Urquhart, E. J., 156, 169  
 Urwick, E. J. S., 157  
 Usher, A. P., 123  
 Usher, F. L., 224  
 Usher, R. G., 287  
 Usry, E. L., 76  
 Vachha, F. B., 32  
 Vachon, A., 278  
 Vaddoncoeur, E., 222  
 Valle, R. S., 24  
 Valente, J., 268  
 Valentine, C. W., 29  
 Valentine-Richards, A. V., 50  
 Valenza, S. R., 198  
 Valetti, A., 206  
 Valin, C., 221  
 Vallee, A., 278  
 Van Arsdale, Miss M. B., 233  
 Van Biesbroeck, G., 64  
 Van Braam, P., 304  
 Vance, Capt. P. T., 64  
 Van De Linde, F., 127  
 Van den Ven, P. J. J., 272  
 Van de Put, A., 179  
 Vanderbuilt, A. T., 237  
 Vanderstempel, A. S., 197  
 Van der Vries, J. N., 137  
 Van der Zee, J., 120  
 Van Dyke, E. C., 24  
 Van Dyke, H., 273  
 Van Dyke, P., 272  
 Van Epps, C., 121  
 Van Es, L., 142  
 Van Eiten, O. T., 197  
 Van Hagen, L. F., 202  
 Van Hoesen, H. B., 273  
 Van Hook J. M., 31  
 Van Hook, Le R., 233  
 Van Horn, F. R., 70  
 Van Houblom, 259  
 Vanier, G., 220, 278  
 Van Ingen, G., 274  
 Van Maanen, A., 262  
 Van Meter, Miss A. R., 76  
 Van Metre, T. W., 233  
 Van Name, R. G., 229  
 Van Nest, J. S., 274  
 Van Norman, H. E., 24  
 Van Nostrand, J. J., 24  
 Vanorden, H. F., 137  
 Van Ornum, J. L., 287  
 Van Orstrand, C. E., 329  
 Van Rensselaer, Miss M., 124  
 Van Saun, S. W., 235  
 Van Slyke, L. I., 104  
 Van-Tuyt, F. M., 108  
 Van Valzah, R., 203  
 Van Vleck, E. B., 201  
 Van Vleck, W. C., 326  
 Van Woert, F. T., 234  
 Varder, R. W., 109  
 Varian, M. G., 198  
 Varkey, C. J., 210  
 Varma, S., 126  
 Varnum, W. H., 201  
 Vasschalde, A. A., 328  
 Vass, A. E., 135  
 Vassallo, E. C., 321  
 Vaswani, S. P., 45  
 Vaughan, H. H., 143  
 Vaughan, T. H., 176  
 Vaughan, T. W., 329, 332  
 Vaughan-Sawyer, Mrs. E., 175  
 Vaughn, D. D., 34  
 Vaux, C. B., 265  
 Veatch, F. M., 138  
 Veazey, W. R., 70  
 Veblen, O., 274  
 Veeder, B. S., 288  
 Veer, A. Vander, 6  
 Veglia, F., 252  
 Veilmeyer, F. J., 25  
 Veitch, G. S., 144  
 Velankar, H. D., 32  
 Venable, F. P., 61  
 Venkataraman, T. S., 72  
 Venkateswaran, R., 279  
 Venn, Miss H., 37  
 Verbruycke, J. R., jr., 339  
 Verco, Sir J. C., 4, 5  
 Verdi, F. W., 229  
 Verhoef, F. H., 54  
 Vernier, C. G., 301  
 Vernon, H. M., 256, 257, 258  
 Vesey, W. T., 49  
 Veyers, G. M., 187  
 Vichert, J. F., 114  
 Vick, R. M., 166  
 Vickers, D., 292  
 Vickers, K. H., 89  
 Victoria, Sister Mary, 13  
 Vidricaire, E., 222  
 Vidyabhusana, M. S. C., 46  
 Vidyabinod, P. K., 292  
 Viljoen, P. R., 272  
 Villasante, J. M., 157  
 Villeneuve, A., 221  
 Vincent, H. E., 149  
 Vincent, J. M., 14  
 Vincent, W., 293  
 Viner, J., 14  
 Vines, S. H., 256, 258  
 Vinogradoff, Sir P., 255, 259  
 Virolle, E., 220  
 Virtue, G. O., 141  
 Vivian, A., 76  
 Vivian, A. C., 182  
 Voegtlin, C., 336  
 Voelcker, A. F., 173, 174  
 Voelcker, E. W., 193  
 Voelcker, J. A., 189  
 Vogel, K. M., 235  
 Vogt, A. S., 310  
 Voigt, Miss I. E., 11  
 Vold, L., 110  
 Volland, R. H., 121  
 Von Engeln, O. D., 123  
 Von Hügel, Baron A., 52  
 Von Neumeyer, C. D., 23  
 Von Schrenk, H., 289  
 Von Schulte, H., 250  
 Vonweller, O. A., 306  
 Voorhies, J. H., 125  
 Vos, B. J., 30  
 Vos, G., 274  
 Vose, F. H., 70  
 Voss, E. K. J., 201  
 Voss, J. H., 245  
 Votaw, C. W., 64  
 Vredenburg, E. W., 45  
 Vreeland, W. U., 272  
 Vroom, F. W., 342  
 Vulliamy, E. O., 51  
 Vulte, H. T., 233  
 Wace, H. C., 259  
 Wachsmann, S., 234  
 Waddell, B. H., 11  
 Wade, E. B. H., 42  
 Wade, Rev. G. W., 134  
 Wade, H., 93, 94  
 Wade, J. O. D., 60  
 Wade-Gery, H. T., 260  
 Wadia, A. R., 224  
 Wadia, D. N., 126  
 Wadia, P. A., 52  
 Wadley, H. W. A., 342  
 Wager, C. H. A., 248  
 Wager, H. A., 472  
 Wagner, A. F., 198  
 Wagner, E. H., 287  
 Wagner, F. C., 308  
 Wagner, G., 201  
 Wagstaff, H. McG., 61  
 Wabhab, A. M. F., 44  
 Wahlin, G. E., 318  
 Waite, C. W., 293  
 Waite, F. C., 68  
 Waite, H. H., 142  
 Waites, Miss M. C., 297  
 Wakeling, G. H., 259  
 Walcott, C. D., 331-332  
 Walden, A. F., 258  
 Walden, P. T., 229  
 Waldo, E. H., 318  
 Waley, A. D., 178  
 Walker, A. L., 235  
 Walker, A. T., 136  
 Walker, C., 29  
 Walker, C. H., 39  
 Walker, C. L., 125  
 Walker, D., 89  
 Walker, E., 257, 142  
 Walker, E. A., 53  
 Walker, E. D., 303  
 Walker, E. M., 112, 257, 309  
 Walker, E. W. A., 256, 257  
 Walker, F. C., 287  
 Walker, G. T., 296  
 Walker, H., 45, 134  
 Walker, Miss H., 29  
 Walker, J., 91, 190  
 Walker, J. B., 234  
 Walker, J. C., 203  
 Walker, Commander J. J., 188  
 Walker, J. W. T., 172  
 Walker, L., 22, 143  
 Walker, M., 12, 209  
 Walker, Miss M. L., 92  
 Walker, N., 93  
 Walker, N. W., 61  
 Walker, P. F., 186, 137  
 Walker, R. H., 80  
 Walker, T. L., 309  
 Walker, W., 94, 159, 229  
 Walker, W. J., 209  
 Walker, W. K., 262  
 Walker, W. O., 313  
 Walkom, A. B., 37  
 Wall, A., 67  
 Wall, T. F., 293  
 Wallace, C., 123  
 Wallace, Sir C., 166  
 Wallace, D., 93  
 Wallace, Miss E., 64  
 Wallace, F. H., 311  
 Wallace, G. B., 237  
 Wallace, H. T., 128  
 Wallace, J. O., 269  
 Wallace, M. W., 309  
 Wallace, P. A. W., 97  
 Wallace, P. M., 149  
 Wallace, R., 91  
 Wallace, R. S., 212  
 Wallace, T. A., 286  
 Wallace, W. J., 246  
 Wallace, W. S., 313  
 Wallas, G., 148, 151, 162  
 Wallen, Miss Z., 298  
 Waller, A. D., 151  
 Waller, C. C., 195  
 Waller, J. C., 344  
 Waller, J. F., 131, 225  
 Waller, Miss M. D., 175  
 Waller, O. L., 276  
 Walley, W. E., 165  
 Wallgren, A. B., 268, 269  
 Wallis, C. E., 172  
 Wallis, E. W., 177  
 Wallis, J. P. R., 272  
 Wallis, R. L. M., 166  
 Walls, Miss C., 80  
 Walmsley, A. T., 156  
 Walmsley, Rt. Rev. J., 101  
 Walmsley, R. M., 147, 164  
 Walmsley, T., 22  
 Walradt, H. F., 76  
 Walsh, Miss S., 199  
 Walsh, T., 103  
 Walsh, W. F., 237  
 Walsh, His Grace the Most Rev. W. J., 84  
 Walsham, H., 166  
 Walshe, F. M. R., 171  
 Walter, Mrs. A. H., 73  
 Walter, F. P., 88  
 Walter, H., 218  
 Walter, H. E., 73, 72, 275

# INDEX TO NAMES

- Walter, P. A. F., 290  
Walters, F. P., 257  
Walters, H. B., 178  
Walters, R., 26, 27  
Walters, W. C. F., 150  
156  
Walton, A. J., 169  
Walton, F. W., 157  
Walton, H. J., 16  
Walton, J. H., 201  
Walton, T. O., 108  
Walton, W. R., 338  
Walworth, G., 19  
Walz, J. A., 53  
Wambaugh, E., 55, 68  
Wandless, H. W., 237  
Wandurton, C., 189  
Warbeke, J. M., 297  
Ward, Sir A. W., 48  
Ward, B., 202  
Ward, C., 249  
Ward, C. F., 120  
Ward, C. N., 202  
Ward, G. E. S., 173  
Ward, G. G., 123  
Ward, H. B., 317  
Ward, H. F., 239  
Ward, H. P., 80  
Ward, J., 48  
Ward, K. M., 279  
Ward, R. De C., 53  
Ward, W., 235  
Ward, W. W., 40  
Wardale, J. D., 89  
Wardale, J. R., 49  
Wardall, Miss R. A., 120  
Wardlaw, W., 28  
Wardle, R. A., 207  
Wardley, W., 344  
Wardlow, Y., 76  
Wardman, J., 118  
Ware Louise, 262  
Ware, W. M., 344  
Warfel, C. G., 277  
Warfield, B. B., 274  
Warfield, R. B., 16  
Waring, H. J., 148, 166  
Warne, W. E., 188  
Warner, Miss A. J., 124  
Warner, F., 169  
Warner, K. F., 142  
Warner, S. B., 100  
Warnock, A. R., 301  
Warren, E., 267  
Warren, E. H., 55  
Warren, F. M., 228  
Warren, G. F., 124  
Warren, Sir H., 258  
Warren, H. C., 274  
Warren, J., 54, 55  
Warren, J. H., 77  
Warren, Miss K. M., 152, 161  
Warren, R., 169  
Warren, W. F., 35  
Warren, W. H., 306  
Warren, W. M., 33  
Warsaw, W. W., 125  
Warshaw, J., 143  
Warton, S. W., 185  
Washburn, A. H., 115  
Washburn, E. W., 318  
Washburn, H. B., 55, 56  
Washburn, M. F., 271  
Washburn, O. M., 23  
Washburne, G., 76  
Washington, L., 334  
Wasiuddin, S., 44  
Wassam, C. W., 121  
Wasteneys, H., 309  
Waterfall, H. W., 318  
Waterhouse, G., 83  
Waterhouse, G. W., 118  
Waterhouse, Sir H. F., 170  
Waterhouse, O., 267  
Waterman, E., 99  
Waterman, E. L., 120, 303  
Waterman, F. A., 247  
Waterman, Miss R., 207  
Waters, Miss C. E., 70  
Waters, D. R., 87  
Waters, E. G. R., 256  
Waters, E. O., 229  
Waters, W. E., 236  
Watthen, G. A., 10  
Waterston, D., 284  
Watkin, E. L., 296  
Watkin, M., 126  
Watkins, D. E., 24  
Watkins, G., 318  
Watkins, Ven. H. W., 89  
Watkins, J. T., 328  
Watkins, I. T., 181  
Watkins, W. M. N., 331  
Watkinson, W. H., 145  
Watney, Sir J., 161  
Watrous, G. D., 229  
Watson, A., 4, 149  
Watson, A. E., 275  
Watson, A. McL., 105  
Watson, A. P., 93  
Watson, B. P., 310  
Watson, C., 93  
Watson, C. G., 166  
Watson, C. H., 137  
Watson, D., 106  
Watson, D. C., 93  
Watson, D. M. S., 156  
Watson, E. W., 255, 259  
Watson, F., 3, 262  
Watson, F. R., 318  
Watson, F. R. B., 39  
Watson, G. G. C., 340  
Watson, G. H., 28  
Watson, G. N., 137, 162  
Watson, H., 222  
Watson, J. A., 244  
Watson, J. A. S., 92  
Watson, J. B., 14  
Watson, J. W., 201  
Watson, Miss M., 99  
Watson, Miss M. U., 111  
Watson, W., 107, 195  
Watson, W. G., 283  
Watson, W. J., 91  
Watson, W. R., 16  
Watson, W. T., 16  
Watt, A., 131  
Watt, A. S., 2  
Watt, H., 95  
Watt, H. A., 236  
Watt, H. J., 105  
Watt, J., 44  
Watt, J. C., 310  
Watt, M., 87  
Watt, R. D., 306  
Watters, W. R., 34, 35  
Watts, A., 170  
Watts, A. S., 77  
Watts, Sir P., 21  
Watts, O. P., 202  
Watts, P. R., 305  
Watts, W. W., 165, 179  
Waugh, G. E., 174  
Waugh, L. M., 234  
Waugh, W., 195  
Waugh, W. T., 296, 207  
Waxman, S. M., 33, 35  
Way, E. T. W., 269  
Way, W. D., 124  
Wayman, H. C., 199  
Weall, J., 283  
Weatherburn, C. E., 212  
Weatherby, L. S., 197  
Weatherly, U. G., 30  
Weaver, A. T., 202  
Weaver, C. H., 312  
Weaver, F. P., 302  
Weaver, J. E., 142  
Weaver, J. R. H., 259  
Weaver, P. J., 61  
Weaver, R., 276  
Webb, C. C. J., 258, 261  
Webb, C. D., 113, 157  
Webb, C. H. S., 173  
Webb, E. D., 237  
Webb, F. R., 197  
Webb, G. R., 83  
Webb, G. T., 37  
Webb, H. W., 234  
Webb, J. J., 85  
Webb, J. S. W., 212  
Webb, P. H., 188  
Webb, S., 162  
Webb, S. J., 151  
Webb, W. D., 323  
Webb-Johnson, A. E., 173  
Webber, H. J., 24, 26  
Weber, J., 268  
Webber, R. G., 12  
Webber, W. P., 268, 269  
Weber, L. S., 324  
Weber, N. A., 228  
Weber, S. W., 273  
Webster, A. B., 92  
Webster, A. G., 343  
Webster, C. K., 144  
Webster, Miss E., 143  
Webster, F. M., 287  
Webster, H., 143  
Webster, H. J., 268, 269  
Webster, K. G. T., 54  
Wedd, C. B., 192  
Wedderburn, J. H. M., 274  
Weed, L. H., 14  
Weekes, G. A., 51  
Weekley, E., 248  
Weeks, J. E., 237  
Weeks, R., 232  
Weeks, W. S., 25  
Weelock, C. F., 6  
Wegner, E. E., 276  
Wehrwein, G., 302  
Weidlein, W. D., 308  
Weidmann, C. A., 265  
Weighton, R. L., 89  
Weigle, L. A., 229  
Weiner, A., 156  
Weir, A. R., 290  
Weir, J., 219  
Weir, J. B., 131  
Weir, J. C., 7  
Weir, T. H., 105  
Weir, W. H., 68  
Weir, W. W., 25  
Weis, J. A., 250  
Weisburg, A. H., 218  
Weiss, A. P., 76  
Weiss, E. A., 269  
Weiss, F. E., 206  
Welch, A. C., 95  
Welch, J. J., 89  
Welch, P. S., 22  
Welch, R. D., 247  
Welch, W., 59  
Welch, W. H., 14, 15  
Weld, H. P., 123  
Weld, W. E., 8  
Welfy, M. D., 303  
Welker, J. E., 137  
Welker, P. A., 328  
Welker, W. H., 320  
Weiler, C. H., 120  
Weller, S., 63  
Wellings, A. W., 29  
Wellman, H. R., 115  
Wellman, Miss M. T., 31  
Wellons, R. D., 200  
Wells, 272  
Wells, A. E., 125  
Wells, C. W., 23  
Wells, D. W., 34  
Wells, G. F., 110  
Wells, G. R., 73, 80  
Wells, H. G., 64  
Wells, H. H., 38  
Wells, H. L., 223  
Wells, H. M., 142  
Wells, J., 255, 260  
Wells, L. C., 343  
Wells, S. R., 147, 149  
Welsh, D. A., 306  
Welsh, Lillian, 18  
Welsh, W., 46  
Weman, Miss M. T., 5  
Wende, G. W., 42  
Wendell, G. V., 234  
Wendt, G. L., 64  
Wenrich, C. N., 268, 269  
Wertheimer, T. J., 273  
Werner, Miss A., 152  
Werner, P. A., 83  
Werner, H. O., 142  
Werner, L., 85  
Wernham, H. F., 178  
Wertheim, E., 137  
Wertheimer, J., 39, 40  
Weschler, G. A., 328  
Wesem, M., 143  
Wessels, W. F., 197  
Wesselhooff, W. F., 34  
Wesson, R. A., 163  
West, A. F., 272  
West, A. K., 245  
West, E., 166  
West, G., 234  
West, P. V., 74  
West, V. J., 209  
Westcott, J. H., 272  
Weston, N. A., 317  
Westerfield, R. B., 228  
Westerman, W. L., 201  
Westermarck, E. A., 151, 162  
Western, A. E., 192  
Westgate, L. G., 80  
Weston, C. P., 253  
Weston, G. B., 54  
Weston, K. E., 341  
Weston, N. A., 318  
Weston, P. L., 37  
Weston, R. S., 242  
Westmore, M. N., 341  
Wetton, H. D., 162  
Weyman, Miss A. R., 233  
Weymouth, F. W., 300  
Weyssse, A. W., 33, 34, 35  
Whale, P. D., 29  
Whaling, H. B., 120  
Wharton, L., 157  
Wharton, L. C., 177  
Whitley, N., 260

- Wheatley, F. G., 34, 210, 211  
 Wheeler, A. E., 139  
 Wheeler, A. L., 41  
 Wheeler, A. S., 61  
 Wheeler, A. W., 66  
 Wheeler, G., 188  
 Wheeler, J. J., 137  
 Wheeler, L. P., 229  
 Wheeler, N. E., 219  
 Wheeler, Miss O. A., 208  
 Wheeler, R. H., 99, 124  
 Wheeler, Ruth, 18  
 Wheeler, W. M., 36, 53, 240  
 Wheelon, H., 286  
 Whelpton, P. K., 142  
 Whetham, W. C. D., 50  
 Whetzel, H. H., 124  
 Whibley, L., 49  
 Whicher, G. F., 10  
 Whidden, H. P., 36, 37  
 Whiddington, R., 140  
 Whillis, S. S., 89  
 Whipple, A. O., 235  
 Whipple, F. J. W., 180  
 Whipple, G. C., 55  
 Whitaker, C. R., 93  
 Whitaker, J. R., 93  
 Whitbeck, R. H., 201  
 Whitby, Miss I. J., 161  
 Whitcomb, Miss E. S., 217  
 Whitcomb, S. L., 136  
 White, 272  
 White, A. W., 246  
 White, C. G., 88  
 White, C. H., 253  
 White, C. J., 54  
 White, C. P., 207  
 White, C. S., 99, 326  
 White, D., 329, 331  
 White, D. S., 77  
 White, E. A., 124  
 White, Miss E. N., 76  
 White, G. F., 343  
 White, G. S., 239  
 White, H. J., 152, 157  
 White, H. L., 197  
 White, H. S., 56, 271  
 White, J., 308  
 White, J. B., 11  
 White, J. D., 288  
 White, J. H., 268, 269, 309, 310  
 White, J. McL., 318  
 White, J. W., 39, 302  
 White, Miss L. A., 134  
 White, L. D., 115  
 White, N. J., 84  
 White, R. J., 19  
 White, R. J. G., 19  
 White, Rhoda M., 276  
 White, Capt. S. A., 5  
 White, S. A. F., 151, 156, 157  
 White, W. A., 326  
 White, W. H., 167, 174  
 White, W. N., 329  
 White, W. R., 302  
 Whites, W. R., 121  
 Whitebread, C., 331  
 Whitehead, A. N., 152, 148, 165  
 Whitehead, Miss F., 292  
 Whitehead, H., 34  
 Whitehead, J. B., 15  
 Whitehead, J. W., 303  
 Whitehead, T., 19  
 Whitehead T. H., 182  
 Whitehouse, F. V., 12  
 Whitehouse, H., 80  
 Whitehouse, R. H., 204  
 White Locke, K. H. A., 255  
 Whiteside, A., 100  
 Whiteside, G. S., 99  
 Whitfield, H. E., 264  
 Whitfield, A., 172  
 Whitford, H. N., 229  
 Whitford, R. C., 102  
 Whitford, W. G., 65  
 Whiting, A. L., 319  
 Whiting, F., 123  
 Whitley, Miss M. T., 234  
 Whitlock, A. N., 218  
 Whitlock, H. P., 239  
 Whitmore, A. A., 253  
 Whitnall, H. O., 114  
 Whitnall, S. E., 219  
 Whitney, C. M., 211  
 Whitney, D. D., 143  
 Whitney, G. T., 273  
 Whitney, J. P., 45  
 Whitney, M., 333  
 Whitney, M. P., 271  
 Whitney, N. R., 120  
 Whitson, A. R., 202  
 Whittaker, E. T., 91, 96  
 Whittam, A. F., 54  
 Whitten, J. C., 24  
 Whittenmore, H. L., 245  
 Whitter, C. B., 301  
 Whittlesey, W. R., 334  
 Whyte, Jessie D., 149  
 Whyte, J. M., 284  
 Wiatt, W. S., 256  
 Wich, H. E., 17  
 Wichrenasinghe, M. de Z., 256, 260  
 Wick, 271  
 Wick, Miss F. G., 123  
 Wickersham, J. A., 308  
 Wickham, H. F., 120  
 Wickham, J. S., 203  
 Widdcombe, J. H., 51  
 Widdows, Miss S. T., 175  
 Wiegand, K. M., 124  
 Wiehr, J., 247  
 Wiener, L., 53  
 Wier, J. E., 281  
 Wiggers, C. J., 68  
 Wight, O. B., 99  
 Wightman, E. R., 302  
 Wigmore, Miss E. G., 253  
 Wignall, E. J., 163  
 Wilberforce, L. R., 145  
 Wilbur, R. L., 299  
 Wilbur, R. S., 90  
 Wilbur, W. A., 325  
 Wilce, J. W., 77  
 Wilcocks, R. W., 304  
 Wilcockson, W. H., 293  
 Wilcox, A. M., 136  
 Wilcox, D. G., 34  
 Wilcox, E. A., 120, 121  
 Wilcox, E. M., 142  
 Wilezynski, E. J., 63  
 Wild, H. D., 341  
 Wild, Miss L. H., 297  
 Wild, R. B., 207  
 Wilde, A. H., 33, 34, 35  
 Wilde, E. L., 302  
 Wilder, H. H., 73, 247  
 Wilder, I. W., 247  
 Wilder, L. H., 336  
 Wildman, B. C., 141  
 Wildman, J. R., 237  
 Wildman, M. S., 299  
 Wiley, G. M., 6  
 Wilfrid, Bro., 135  
 Wilk, R. B., 203  
 Wilkens, F. H., 236  
 Wilkerson, J. W., 110  
 Wilkerson, T. R., 326  
 Wilkie, D. P. D., 93  
 Wilkins, E. H., 63  
 Wilkins, G., 83  
 Wilkins, Mrs. O. A. C., 36  
 Wilkins, T. R., 36  
 Wilkinson, A. C. L., 32  
 Wilkinson, C. H., 260  
 Wilkinson, Miss D. E., 305  
 Wilkinson, G., 293  
 Wilkinson, H. P., 258  
 Wilkinson, H. S., 256  
 Wilkinson, Sir H. S., 21  
 Wilkinson, J. A., 126  
 Wilkinson, J. F., 213  
 Wilkinson, L., 306  
 Wilkinson, W., 163  
 Wilkinson, W. C., 63  
 Will, A. A., 246  
 Will, J. K., 169  
 Will, J. S., 309  
 Willard, A. C., 318  
 Willard, C. J., 76  
 Willard, H. R., 253  
 Willard, J. M., 301  
 Willard, W., 251  
 Willard, W. A., 141  
 Wilcox, W. F., 122  
 Wilcox, W. H., 173  
 Willett, H. C., 197  
 Willett, H. L., 64  
 Willets, C. E., 342  
 Willey, A., 220, 218  
 Williams, A. J., 245  
 Williams, A. M., 92  
 Williams, A. W., 163  
 Williams, C. A., 53  
 Williams, C. C., 137  
 Williams, D., 109, 188  
 Williams, E. H., 88, 293, 313  
 Williams, E. L., 196  
 Williams, E. T., 23  
 Williams, E. U., 175  
 Williams, F. B., 343  
 Williams, F. E., 202  
 Williams, F. W., 228  
 Williams, G., 171  
 Williams, G. Y., 245  
 Williams, H., 143, 195, 208, 209  
 Williams, Miss H. I., 247  
 Williams, H. B., 235  
 Williams, H. H., 61, 260  
 Williams, H. U., 42  
 Williams, H. W. G., 182  
 Williams, I., 19, 39  
 Williams, J. A., 30  
 Williams, J. D., 3  
 Williams, J. F., 233  
 Williams, J. H., 273  
 Williams, J. L., 2  
 Williams, J. W., 14, 234  
 Williams, Sir John, 3  
 Williams, K. P., 31  
 Williams, L. A., 61  
 Williams, L. F. R., 258  
 Williams, Miss M. C., 120, 157  
 Williams, Miss M. G., 297  
 Williams, M. P., 257  
 Williams, Mary, 152  
 Williams, Mary W., 18  
 Williams, N. T., 209  
 Williams, O. E., 77  
 Williams, O. H., 146  
 Williams, O. T., 156  
 Williams, P. W., 39  
 Williams, R. A., 22  
 Williams, R. H., 309  
 Williams, R. J. P., 169  
 Williams, R. S., 244  
 Williams, S., 6  
 Williams, S. R., 249  
 Williams, T., 288  
 Williams, W. H., 118, 201  
 Williams, W. I., 320  
 Williams, W. J., 316  
 Williams, W. L., 124  
 Williams, W. N., 51  
 Williams, W. R., 234  
 Williams, W. W., 333  
 Williams-Jackson, A. V., 232  
 Williamson, G. A., 2  
 Williamson, C. D., 319  
 Williamson, H., 166  
 Williamson, J. D., 67  
 Williamson, R. M., 2  
 Williamson, S. A., 168  
 Williamson, W., 150  
 Willing, T. N., 291  
 Willis, B., 306  
 Willis, H. E., 110  
 Willis, H. P., 232  
 Williston, S., 55  
 Willoughby, C. C., 56  
 Willoughby, L. A., 256  
 Willoughby, W. C., 117  
 Willoughby, W. M., 176  
 Willoughby, W. W., 14  
 Wills, A. P., 233  
 Wills, G. A., 38  
 Wills, L. J., 23  
 Willscher, H., 285  
 Willson, F. N., 274  
 Wilm, E. C., 33, 35  
 Wilmot, S., 275  
 Wilmott, A. J., 178  
 Wilshire, A. M., 38  
 Wilmore, N. T. M., 264  
 Wilson, A., 207  
 Wilson, A. F., 237  
 Wilson, C. B., 120  
 Wilson, C. G., 53  
 Wilson, C. S., 103  
 Wilson, C. T. R., 47, 51  
 Wilson, D. T., 70  
 Wilson, D. W., 15  
 Wilson, E., 150, 157  
 Wilson, E. B., 233  
 Wilson, E. J., 264  
 Wilson, F. H., 201  
 Wilson, F. J., 107  
 Wilson, F. P., 29, 145, 340  
 Wilson, F. W., 281  
 Wilson, G., 16, 22  
 Wilson, G. F., 99  
 Wilson, G. H., 63, 106, 197  
 Wilson, G. S., 170  
 Wilson, G. V., 182  
 Wilson, G. W., 286  
 Wilson, H., 77, 166  
 Wilson, Miss H., 252  
 Wilson, H. A., 258  
 Wilson, H. B., 174



# INDEX TO NAMES

- Wilson, H. R., 12  
 Wilson, H. Van P., 61  
 Wilson, I. D., 303  
 Wilson, J., 86, 162  
 190  
 Wilson, J. C., 196  
 Wilson, J. F., 25, 197  
 Wilson, J. H., 90  
 Wilson, J. K., 124  
 Wilson, J. L., 306  
 Wilson, K., 172  
 Wilson, L. A., 6  
 Wilson, L. N., 343  
 Wilson, L. P., 246  
 Wilson, L. R., 61  
 Wilson, M., 92  
 Wilson, Miss M., 37  
 Wilson, O. H., 225  
 Wilson, P., 177, 244  
 Wilson, R., 131  
 Wilson, R. A., 291  
 Wilson, R. D., 274  
 Wilson, R. J., 237  
 Wilson, R. N., 25  
 Wilson, R. P., 141  
 Wilson, S. A. K., 172  
 Wilson, S. S., 67  
 Wilson, T., 29  
 Wilson, T. H., 83, 86  
 Wilson, T. J., 60  
 Wilson, W., 91, 157  
 Wilson, W. A., 229  
 Wilson, W. J., 22  
 Wilson, W. L., 27  
 Wilson, W. M., 95, 124,  
 318  
 Wilson, W. P., 267  
 Wilson, W. T., 231  
 Wiltbank, R. T., 64  
 Wiltberger, R. B., 77  
 Wilton, T. R., 145  
 Wiltshire, H. W., 172  
 Wiltshire, S. P., 39  
 Wily, J. H., 27  
 Wimmer, C. P., 235  
 Winans, J. A., 122  
 Winchell, Miss C. M.,  
 233  
 Winchell, A. N., 201  
 Winchester, E. S., 229  
 Winchester, C. T., 216  
 Windle, Sir B. C. A., 78,  
 312  
 Windsor, P. L., 317,  
 319, 320  
 Winfield, P. H., 50  
 Winbank, C. B., 300  
 Wing, H. H., 124  
 Wing, J. C., 39  
 Wingate, Gen. Sir R.,  
 127  
 Winn, W. N., 195  
 Winslow, Ala. E., 18  
 Winslow, C. E. A., 229,  
 240  
 Winslow, C. P., 201  
 Winslow, J. R., 16  
 Winslow, N., 16  
 Winslow, R., 16  
 Winstanley, D. A., 50  
 Winstanley, Miss L., 3  
 Winston, P. H., 61  
 Winter, G. B., 286  
 Winter, I. L., 54, 55  
 Winternitz, M. C., 229  
 Winters, J. E., 123  
 Winton, G. B., 224  
 Wintringer, G. C., 272  
 Wippl, Rev. J. C., 20  
 Wirkler, J. E., 248  
 Wischmeyer, C., 308  
 Wise, W. D., 16  
 Wishart, D. J. G., 310  
 Wiskocil, C. T., 25  
 Wisner, C. C., 8  
 Wissler, C., 240  
 Wittchell, E. F. D., 162  
 Wittchell, W. M., 180  
 Witherbee, O. O., 197  
 Witherby, T. C., 37  
 Witherspoon, J., 225  
 Witherspoon, J. A., 225  
 Withey, M. O., 202  
 Wittington, R., 247  
 Withrow, J. R., 76  
 Witt, W. H., 225  
 Wittig, G. F., 229  
 Wodehouse, H. M., 38  
 Woerner, W. F., 287  
 Woglom, W. H., 234  
 Wohl, M., 251  
 Wohlenberg, W. J., 229  
 Wojta, J. F., 203  
 Wolbach, S. B., 54  
 Wolcott, R. C., 76  
 Wolcott, R. H., 143  
 Wolf, A., 152  
 Wolf, I. J., 137  
 Wolf, J. C., 17  
 Wolf, W. B., 16  
 Wolfe, A. S., 326  
 Wolfe, B. L., 138  
 Wolfe, Coral, 262  
 Wolfe, F. E., 80  
 Wolfenden, R., 157  
 Wolfenson, L. B., 202  
 Wolff, J. E., 53  
 Wolfsohn, J. M., 301  
 Woll, F. W., 24  
 Womack, F., 166  
 Wonder, C. J., 250  
 Wood, A., 51  
 Wood, A. J., 303  
 Wood, C., 48, 49, 71, 72  
 Wood, C. E., 28  
 Wood, C. M., 34  
 Wood, C. T., 50  
 Wood, D. T. B., 177  
 Wood, Mrs. E., 214,  
 215  
 Wood, E. H., 125  
 Wood, F. A., 63  
 Wood, F. C., 234  
 Wood, F. G. C., 322  
 Wood, F. H., 6, 71  
 Wood, G., 260, 264  
 Wood, G. A., 305  
 Wood, H., 14  
 Wood, Sir H. T., 185  
 Wood, I. D., 141, 142  
 Wood, I. F., 247  
 Wood, Mrs. J., 197  
 Wood, J. A., 264  
 Wood, J. K., 284  
 Wood, J. S., 201  
 Wood, L. A., 195  
 Wood, Miss M., 336  
 Wood, N. W., 34  
 Wood, P. F., 92  
 Wood, P. S., 197  
 Wood, P. W., 51  
 Wood, Miss R. G., 247  
 Wood, R. W., 14  
 Wood, T. B., 48  
 Wood, T. D., 232  
 Wood, T. H., 225  
 Wood, W. H., 115  
 Wood, W. Q., 92  
 Woolbine, G. E., 229  
 Woolbridge, A. K., 100  
 Woolbridge, F. J. E.,  
 233  
 Woodburn, J. A., 30  
 Woodbury, C. E., 250  
 Woodbury, F., 112, 113  
 Woodbury, W. W., 113  
 Woodford, H. W., 189  
 Woodhead, Sir G. S.,  
 190  
 Woodhead, G. S., 47  
 Woodhouse, E. T., 248  
 Woodhouse, M. C. G.,  
 248  
 Woodhouse, W. J., 305,  
 306  
 Woodhull, J. F., 233  
 Woodman, J. E., 236  
 Woodruff, H. A., 213  
 Woodruff, L. L., 228  
 Woods, B. M., 25  
 Woods, C. D., 252, 253,  
 254  
 Woods, E. B., 115  
 Woods, H., 16, 48, 49  
 Woods, J. A., 145  
 Woods, J. C., 168  
 Woods, J. H., 53  
 Woods, M., 207  
 Woods, Sir R. H., 83  
 Woods, R. S., 169  
 Woods, W. C., 216  
 Woods, W. W., 169  
 Woodward, A. S., 185  
 Woodward, A. S., 178  
 Woodward, B. B., 178,  
 190  
 Woodward, E. G., 276  
 Woodward, F. C., 65  
 Woodward, H. S., 69  
 Woodward, R. S., 332  
 Woodward, S. M., 121  
 Woodworth, C. W., 24  
 Woodworth, J. B., 54  
 Woodworth, R. S., 234  
 Woolacott, D., 89  
 Woolbert, C. H., 318  
 Wooldridge, G. H., 152,  
 158  
 Wooley, W. J., 167  
 Woolley, Miss M. E.,  
 297  
 Woolner, A. C., 129,  
 130, 132  
 Woolnough, W. G., 264  
 Woolsey, G., 123  
 Woolston, W. J., 320  
 Wooster, H. A., 210  
 Wordley, S., 166  
 Work, P., 124  
 Working, D. W., 316  
 Workman, H. B., 147  
 Works, G. A., 124  
 Worley, F. P., 12  
 Worensald, H., 344  
 Worensald, Mrs. H., 344  
 Worral, D. E., 211  
 Worrell, W. H., 117  
 Worsnop, B. L., 157  
 Worth, C., 170  
 Worthen, E. L., 302  
 Wortley, H. A. S., 100  
 Wragge, Miss S., 89  
 Wray, D. A., 182  
 Wrenks, J. H., 294  
 Wren, F. G., 210  
 Wren, L. C., 25  
 Wren, T. L., 50, 152, 155  
 Wrenn, C. L., 89  
 Wright, Miss, 13  
 Wright, A., 49, 50  
 Wright, Sir A., 173  
 Wright, Sir A. E., 150  
 Wright, Mrs. A. E., 37  
 Wright, A. H., 123, 203  
 Wright, A. M., 237  
 Wright, A. R., 62  
 Wright, A. S., 70  
 Wright, A. T., 26  
 Wright, C. H., 195  
 Wright, C. H. C., 53,  
 310  
 Wright, C. S., 48  
 Wright, C. W., 63  
 Wright, E., 211  
 Wright, E. H., 233  
 Wright, F. A., 159  
 Wright, F. H., 280  
 Wright, F. W., 247  
 Wright, G., 207  
 Wright, H. A., 42, 206  
 Wright, H. B., 229  
 Wright, H. G., 19  
 Wright, J., 256  
 Wright, J. A., 31  
 Wright, J. H., 54  
 Wright, J. L., 17  
 Wright, Miss K. D., 336  
 Wright, M. R., 89  
 Wright, R., 105  
 Wright, S. I., 267  
 Wright, T. B., 197  
 Wright, T. C., 158  
 Wright, T. D., 164  
 Wright, T. G., 106  
 Wright, W., 150, 169  
 Wright, Mrs. W. C., 41  
 Wright, W. H., 223, 270  
 Wright, W. J., 124  
 Wright, W. K., 115  
 Wright, W. L., 37  
 Wright, W. N., 203  
 Wright-Hezbst, Miss J.,  
 276  
 Wrigley, P. R., 207  
 Wrigley, P. T., 165  
 Weinland, H. A., 25  
 Wriston, H. M., 216  
 Wrong, E. M., 259  
 Wrong, G. McK., 306  
 Wurts, J., 229  
 Wyatt, F. A., 97, 319  
 Wyatt, W. F., 211  
 Wyer, J. L., jr., 6  
 Wyer, M. G., 143  
 Wyer, R., 343  
 Wyld, N. C. K., 144  
 Wyld, Capt. C. H., 179  
 Wylie, H. B., 16  
 Wylie, J., 22  
 Wylie, L. J., 271  
 Wylie, R. B., 120  
 Wynne, W. P., 190  
 Wynter, W. E., 173  
 Yahya, M., 44  
 Yajnik, A. B., 131  
 Yapp, R. H., 28  
 Yarros, R. S., 319  
 Yates, T., 173  
 Yelverton, C., 78  
 Yennery, R. C., 99  
 Yeomans, H. A., 54  
 Yerlington, H. H., 300  
 Yerkes, J. W., 824  
 Yule, G. A., 48  
 Yoder, Miss E., 196,  
 198  
 Yoder, J. H., 303  
 Yodin, Miss H., 199  
 York, H. H., 275  
 Yorke, W., 145, 147  
 Yost, 272  
 Young, A., 58, 246  
 Young, A. A., 122

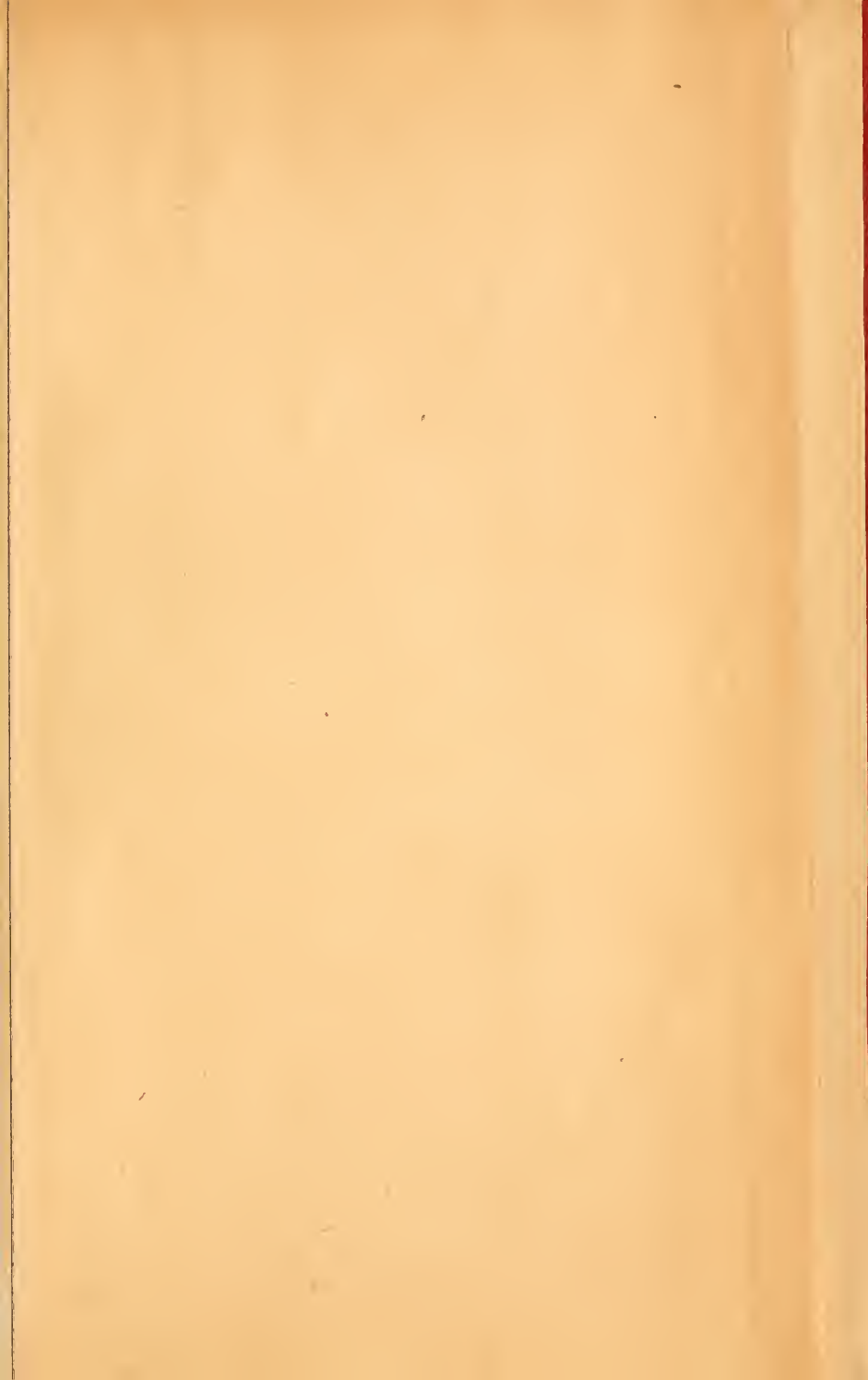
# ATHENA—A YEAR-BOOK OF THE LEARNED WORLD

Young, A. H., 309	Young, H. H., 15	Young, W. H., 3, 144	Zeitlin, J., 318
Young, Miss A. S., 298	Young, H. J., 142	Young, W. J., 213	Zeleny, C., 317
Young, B. E., 224	Young, H. W., 300	Younghusband, Lt.-Col.	Zeleny, J., 228
Young, C. A., 142	Young, J. L., 234	Sir F., 187	Zelinski, W. F. von, 66
Young, C. B., 81	Young, J. R., 281	Youngken, H. W., 265	Zemin, J. S., 45
Young, C. C., 137	Young, J. W., 115	Youtz, H. A., 249	Zibba, S. K., 200
Young, C. E., 120	Young, J. W. A., 64	Yusuf, M., 44	Ziyler, C. H., 49
Young, C. H., 232	Young, K., 201	Yves, rather, 135	Zimm, J., 253
Young, C. R., 182, 310	Young, M., 207		Zimmermann, R., 32
Young, C. V. P., 122	Young, Miss M. V., 297	Zabriskie, C. B., 238	Zimmern, A. E., 3
Young, E. H., 196	Young, P. N. F., 81	Zack, F. J., 218	Zinsser, H., 234
Young, F. G., 98, 99	Young, R. A., 170	Zahorsky, J., 236	Zook, G. F., 302
Young, G., 151	Young, R. B., 126	Zammit, T., 321	Zug, G. B., 115
Young, G., Jr., 152	Young, R. T., 110	Zamorska, Miss W., 107	Zuill, W. L., 197
Young, G. A., 251	Young, S., 9, 83, 190	Zan, J. C., 99	Zumbalen, J. H., 238
Young, Mrs. H. B., 124	Young, S. W., 300	Zanetti, J. E., 234	Zumbro, W. M., 205
Young, H. C., 326	Young, T. P., 284	Zavitz, C. A., 111	Zutshi, M. N., 132









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